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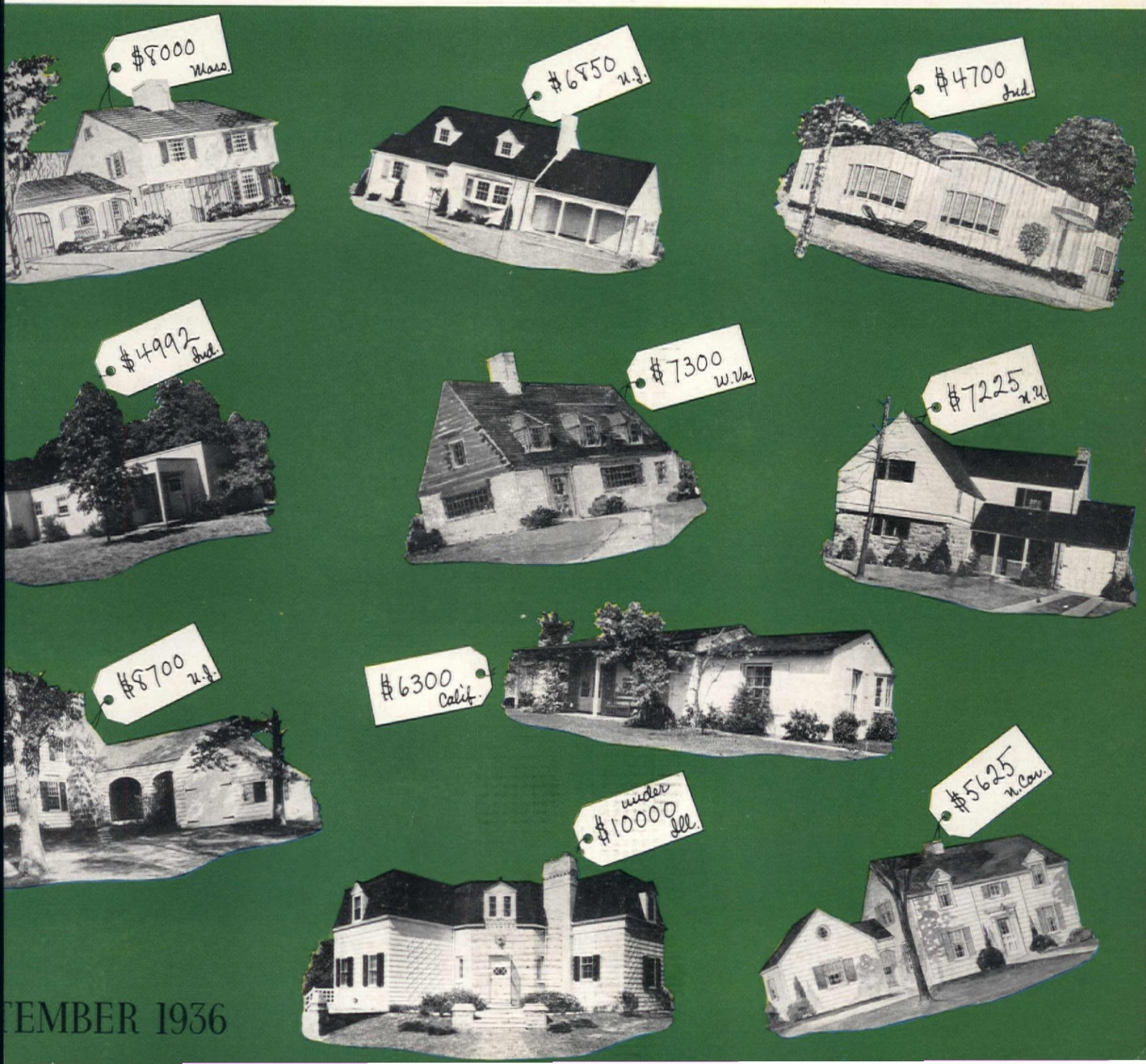

TEMBER 1936

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WELL may you pride yourself if your precious ones are *doubly* protected against the perils of blowouts or any other tire hazard by Goodyear Double Eagle Airwheels* and LifeGuard* Tubes. Yours then is the satisfaction, yours the peace of mind of knowing that they are armored against danger by the finest tire safety equipment now purchasable in the world! That has been proved conclusively by weeks of torture tests at top speed on blazing-hot Bonneville Salt Flats, the world's fastest speedway. As anyone would expect, these definitely super-standard products cost a little more; in fact, their appeal is the direct opposite of cheapness—being built not to save money but to save life.

*Trade-mark Registered

GOODYEAR LIFE GUARD TUBE

A Look for the yellow valve stem and blue cap.

B LifeGuards* take a little longer to inflate because air passes gradually from "inner tire" to outer tube through this VENT HOLE.

C On this two-ply "INNER TIRE" you ride to a stop with car under control, even though casing and outer tube blow wide open.

MORE PEOPLE RIDE ON GOODYEAR TIRES THAN ON ANY OTHER KIND

HOW TO BE SURE

of getting the finest and cheapest kind of automatic oil heat

BEFORE General Electric engineers ever began designing the G-E Oil Furnace, they set up specifications for ideal oil heating—14 points of vital importance to every home owner—a standard against which every oil heating device could be measured. These are listed here so that you may use them as your own check list. Not one of them can you afford to do without; not one is missing from the G-E Oil Furnace.

1. DEPENDABILITY: Built-in automatic controls which regulate every feature of operation.
2. ECONOMY: Burns low-cost oil by means of an entirely new principle of atomization. Effects a saving from 20 to 50 per cent in fuel bills.
3. CONTINUOUS HOT WATER: Built-in water heater provides ample year-round supply for all purposes.
4. FREEDOM FROM ATTENTION: Completely automatic, sealed-in, self-oiling mechanism.
5. COMFORT: Famous G-E Thermal Control with electric clock automatically changes from day to night temperature at selected times, operates to maintain even temperatures at all times.
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GENERAL ELECTRIC OIL FURNACE

ICAN HOME. September, 1936. Published monthly. Vol. XVI, No. 4. Published by the Country Life-American Home Corp., 444 Madison Ave., New York, N. Y. Subscription price $1.00 a year. Foreign $2.00. Entered as second class matter December 31, 1935, at the post office at New York, N. Y., under act of Congress, March 2, 1879.

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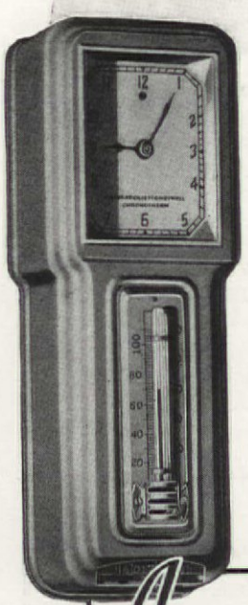

RIGHT now, as the winter of '36 approaches, perhaps you are wondering how you can maintain uniform comfort in your home through the cold months just ahead. The answer is "Automatic Heating and Air Conditioning – Automatically Controlled." Take a tip from last winter and install an automatically controlled burner at once, using the kind of fuel you prefer. Automatic heat is comfortable, economical and is trouble free in its operation. Automatically controlled Air Conditioning can be added at moderate cost to give you your kind of inside weather all year 'round.

Control is Paramount

It is important to remember that no matter what type of automatic heating or air conditioning you select, adequate and proper control spells its success or failure . . . Consider the Chronotherm, the Automatic Electric Clock Control that provides leveled heat at all times, automatically lowering the temperature at night when heat is not needed and restoring it to the daytime level in the morning, saving 10% to 30% in fuel cost . . . Chronotherm is only one of the many Minneapolis-Honeywell controls designed to provide the utmost in comfort, convenience, economy and accurate performance of your automatic burner or air conditioning system. Other Minneapolis-Honeywell controls are available for large buildings and industrial applications. Minneapolis-Honeywell Regulator Co., 2737 Fourth Avenue South, Minneapolis, Minnesota. Branch and distributing offices in all principal cities.

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AND AIR
CONDITIONING
See Your Dealer NOW

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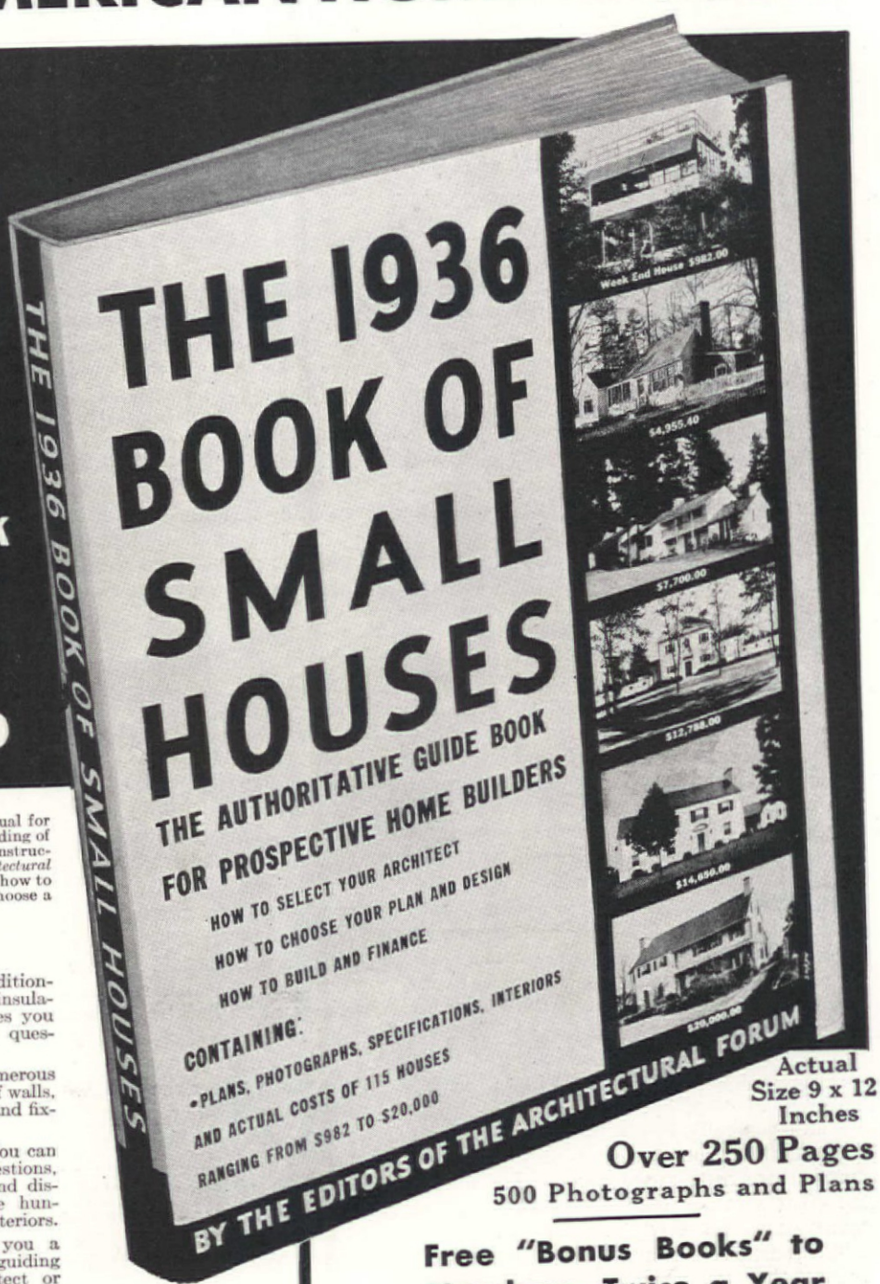

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This big new 1936 BOOK OF SMALL HOUSES is a complete manual for everyone who wants to build his own home with a complete understanding of every step involved. It contains plans, costs, specifications and all construction details for 115 small houses selected by the Editors of *Architectural Forum*—houses ranging in price from $982 to $20,000. It will tell you how to find out how much the house you want will cost—and why; how to choose a building site and how to design, plan and finance that home.

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3. *When planning the floor layout:* Suggestions to guide your architect properly, and save time and money in the later correction and changing of plans.
4. *Specifications:* "Shall we use wood, brick or stone?" "Shall we heat with coal, gas or oil?" "What about air conditioning?" "What about insulation?" This book gives you the answers to these questions.
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ON THE HEARTH OF THE AMERICAN HOM

An unbiased opinion—after a study of conditions in more than two hundred communities throughout the country the verdict is—*Build Now!*

J. A. HALL

PART I.

THOUSANDS of our American families have been thinking about and discussing this most important question in recent months. "Shall we build now?"

Many of them purchased lots previous to the depression and have just been waiting until they could feel assured of the future and that conditions were advantageous to take that important step. Perhaps some have been waiting for the mortgage market to loosen up a bit to enable them to secure the necessary financial assistance. Thousands of others also own lots but, not able to set aside the material amount of cash they thought would be necessary before they could think of building, do not realize the opportunity presented to them through the new single mortgage system which is fostered by the Federal government through the Federal Housing Administration.

My frank and honest advice to both classes of prospective home builders is very plain and made without hesitation. It is based not only on my own opinion but the sincere belief of leaders in the construction field that never again will be presented a more advantageous time to build a home or a time when more can be secured for the money invested. Building now goes further than supplying the needs and fulfilling perhaps the family's life-long dream. It will react in a beneficial circle, like bread cast upon the waters, accelerating the momentum of normal business prosperity for all of us.

Building costs (at the time this is written) are still generally below the 1926 level. But following the usual course of supply and demand, these costs are steadily rising, due to the great shortage of homes throughout the country and the steady increase in construction. Predictions are always dangerous, but I believe the statement is most conservative that the same home will cost at the very least ten per cent more one year from now than it will cost today. And there is another very important consideration that is seldom mentioned in this connection: Thousands of craftsmen, formerly engaged in residential construction, have drifted into other fields of endeavor in the last five or six years. In one city of the Middle West a Union official connected with the building trades advised me that the membership in one particular Union had dropped from about 1200 to 140 members. Whether or not the great majority of these craftsmen, now otherwise employed, will drift back into the building trades when real activity starts is a question. If they do not, there is every possibility of a labor shortage in the construction field. As a matter of fact this shortage has already been felt in some communities where it has been found necessary to advertise in other near-by centers for craftsmen. This not only presents a possibility of delay, if you put off building, but has every indication of greatly increased costs as a result.

A great many who bought building sites seven, eight, or ten years ago, have completed their payments on these lots and now own them free and clear of all indebtedness. Whether they have a surplus of cash with which to build or not in most cases, with the lots properly located, they are in a fortunate position and can start building immediately.

Under the Federal Housing Administration plan of single, long-term, mortgage financing, the free and clear lot that these people own can generally act as the entire or a major part of the down payment on a new home, with the balance payable in easy, convenient, monthly installments, about the same as rent. In fact the monthly payments will very often amount to less than would be charged normally for a similar new home. This opportunity prevails in any community where the local banks or other mortgage lending institutions are qualified and coöperating fully, in the spirit of the National Housing Act. Under these conditions and the regulations of the Federal Housing Administration, loans may be secured on new homes up to eighty per cent of the value of land and buildings, in locations and with plans approved by the local loaning institution and the Federal Housing Administration.

TO GET down to a concrete example. If you own, for instance, a residential building site, properly located and worth $2000, free and clear, we shall suppose, as an example, you want to build a home costing $8000. If you have a good credit standing in the community and it is necessary for you do so so, you could, under the F.H.A. regulations, borrow the full $8000 necessary to build the home. Your bank or financial institution would make arrangements for the construction loan, if necessary. Then when your home is completed, a single, long-term mortgage would be placed on the property, for a period up to twenty years. This mortgage would be paid off in easy monthly installments, which would not only include part of the principal and interest, but one twelfth of your estimated taxes, insurance, and other fixed charges against the property.

Under this excellent plan, therefore, you would actually know, before you started to build, just exactly what it would cost you each and every month to own that home. As a matter of fact, the official of the bank or mortgage institution, together with the representatives of the Federal Housing Administration will be in a position to advise you honestly, from their years of experience and the experience of thousands of home owners in the past, just how far you should go in the building of a home and the monthly payments your income and future prospects warrant undertaking. This advice will be given you right at the start, after you have filed your mortgage application, but before you start building. This is most important in your interest. Thousands upon thousands of the unfortunate families who lost their homes during the depression did so because they had bought or built beyond their means, some of course, in their unwise efforts to "keep up with the Joneses."

In this connection it will probably be well spent to consider for a moment the plication blank that you will be asked t out in connection with the new single m gage system, approved by the F.H.A. It been severely criticised because of its le and the detail required. It is true, it is complete. In fact when it was first issue official of the F.H.A. said to the writer it had everything on it except a "blood t But why is so much information deman

LET us examine what many believe been a most unsound method of loa money on mortgages heretofore as comp with the new system. Generally speakin the old days, money was loaned on m gages, secured by real estate, entirely or value of the property. The individual o stitution loaning the money cared littl nothing regarding the ability of the ow of the property to carry the property definitely. The only consideration was wh or not, if it became necessary to fore that particular property could be sold sufficient amount to cover the amount du other words, the consideration was no much to aid people to own their own h as the profit motive.

The Federal Government, through the eral Housing Administration, has altog a different objective. They believe ownership should be made possible to greatest number of our American fa whose income and steadiness of employ warrant such an undertaking. Further, believe that these families should be ab own these homes just as long as they to, without constant threats of losing through foreclosure because they have or bought beyond their means.

IN ORDER to carry out these objectives, ever, the trained experts of the financi stitutions loaning the money and of F.H.A. must have the necessary inform about the applicant—his background business, and his personal affairs. Wi this information they are in no more po to give honest and competent advice th a physician to diagnose an illness with si superficial information. Therefore with this little discussion it will be readily rea that the information requested on the plication is most essential. Naturally it even beyond this, for it gives the lo institution the information and protecti should have for the money loaned an F.H.A., which insures the loan under mutual insurance plan, assurance tha payments on the mortgage can be made out unforeseen developments.

The difference between the old systen the new will also be quickly realized. I old system, the only consideration was the principal and interest, even if the had to be taken away to do so. In the not only the value of the property is sidered but also the moral risk and the ity of the owner to keep the home as lo he wishes to do so.

[Part II follows on pag

He still wants to kiss her good night

MARRIED eight years . . . but for them none of that humdrum, take-it-for-granted attitude that creeps into so many marriages. He still wants to kiss her good night. Clever woman . . . she has always known the secret of keeping dainty and fresh in all things . . . the breath particularly. After all, there's nothing like halitosis (unpleasant breath) to raise a barrier between people.

* * *

You Never Know

Your breath may be agreeable today and offensive tomorrow. The food you eat, the things you drink, the hours you keep —all bring subtle changes that may result in halitosis (bad breath). Consequently, you must ever be on guard lest you offend.

Better Safe Than Sorry

Fortunately, halitosis often yields quickly to Listerine used as a mouth rinse or gargle. Almost at once, this remarkable deodorant cleanses, sweetens, and freshens the mouth. At the same time, it halts fermentation of tiny food particles—the major cause of mouth odors. Then overcomes the odors themselves.

And remember, Listerine is safe even when used full strength—does not harm delicate tissues of the gums or mouth. *It actually stimulates them.*

When You Want To Be Sure

Fortunately for the public, many of the "bargain" imitations of Listerine are now out of business. Too strong, too harsh, too bitter to be tolerated, or lacking Listerine's speedy deodorant and antiseptic properties, such mouth washes were soon rejected by the public.

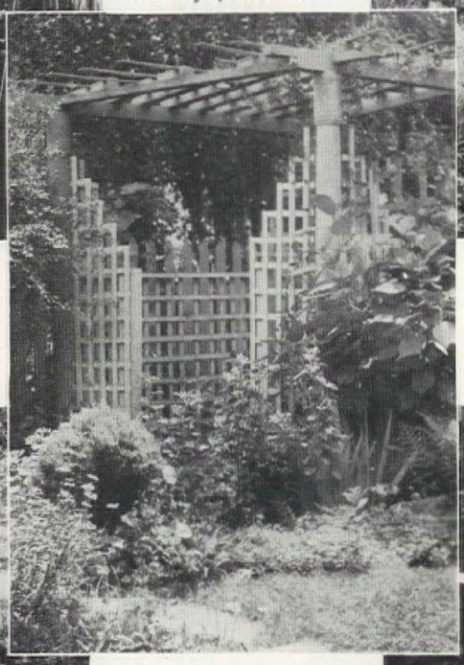
When you want a wholly delightful mouth wash, when you want to be sure of effective breath control with *safety*, use Listerine and Listerine *only*. Rinse the mouth with it morning and night and between times before business and social engagements. *Lambert Pharmacal Company, St. Louis, Mo.*

for HALITOSIS *use* LISTERINE

162 Brushings for 40¢
Big DOUBLE SIZE tube of
LISTERINE
TOOTH PASTE
Regular Size 25¢

Above: A lily pool in the garden of J. H. Wilhelm, Hamilton Beach, Long Island

Below: A picturesque garden spot at the home of Mr. and Mrs. Walter A. Milligan of Brooklyn, New York



Above: Lily pond in garden of Mr. and Mrs. Marvin F. Yates, Washington, D. C.

C. W. Marsh

Close up view of pool and rock garden of Mr. and Mrs. Charles H. Bren, Salina, Kansas

Above: A restful scene in the garden of Mrs. John F. Simmons, Birmingham, Alabama

SEPTEMBER, 1936

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The flower garden surrounding garage of Mr. and Mrs. Wm. Ryder, Babylon, New York

The attractive home of Mr. J. M. Blamphin of Cynwyd, Pennsylvania

Garden of Mr. and Mrs. John Allen, Arlington Heights, Illinois

LEONARD BARRON, Horticultural Editor — MRS. JEAN AUSTIN, Editor — CHARLOTTE EATON CONWAY, Associate Editor

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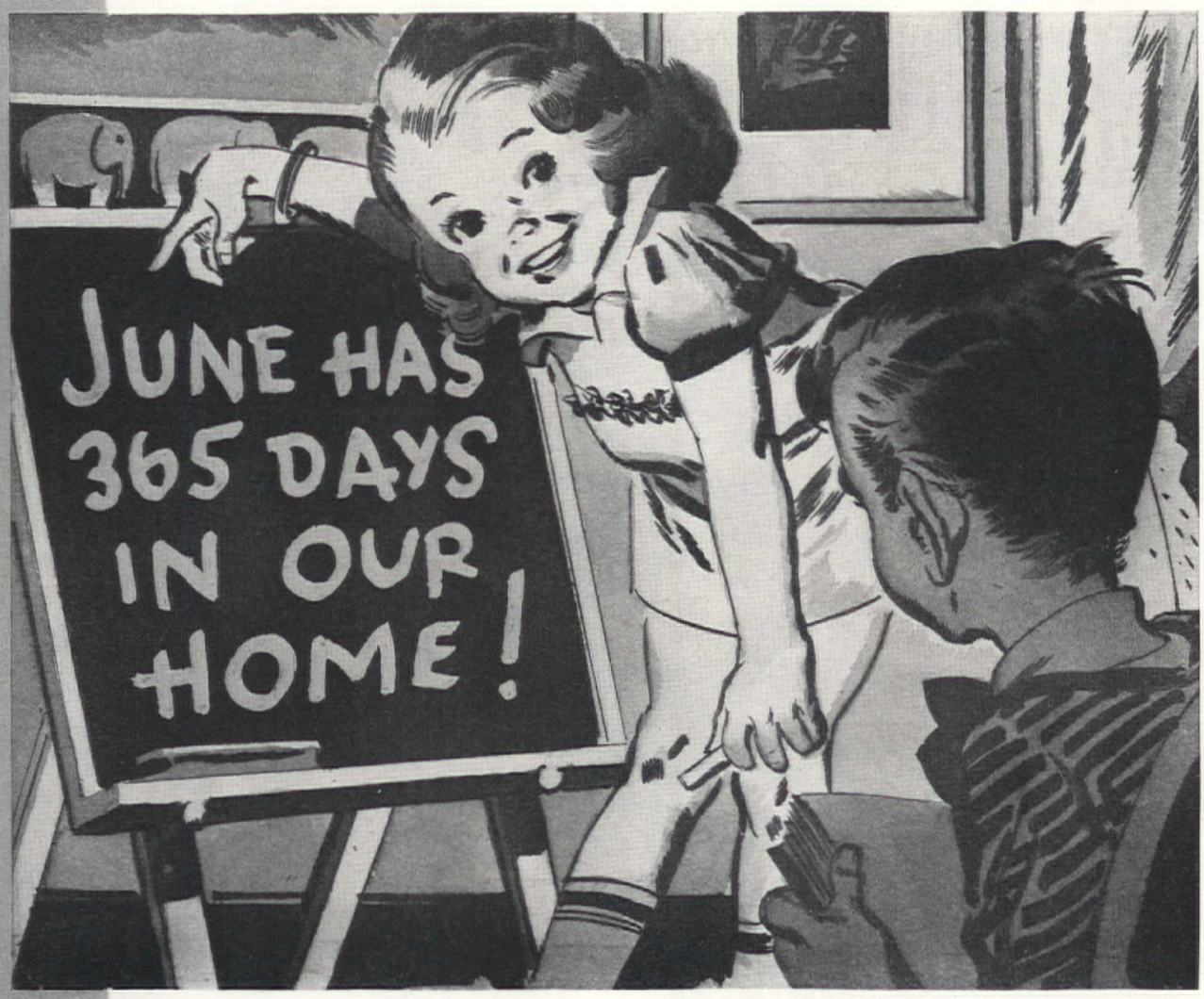

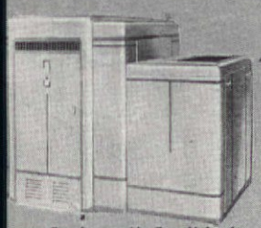

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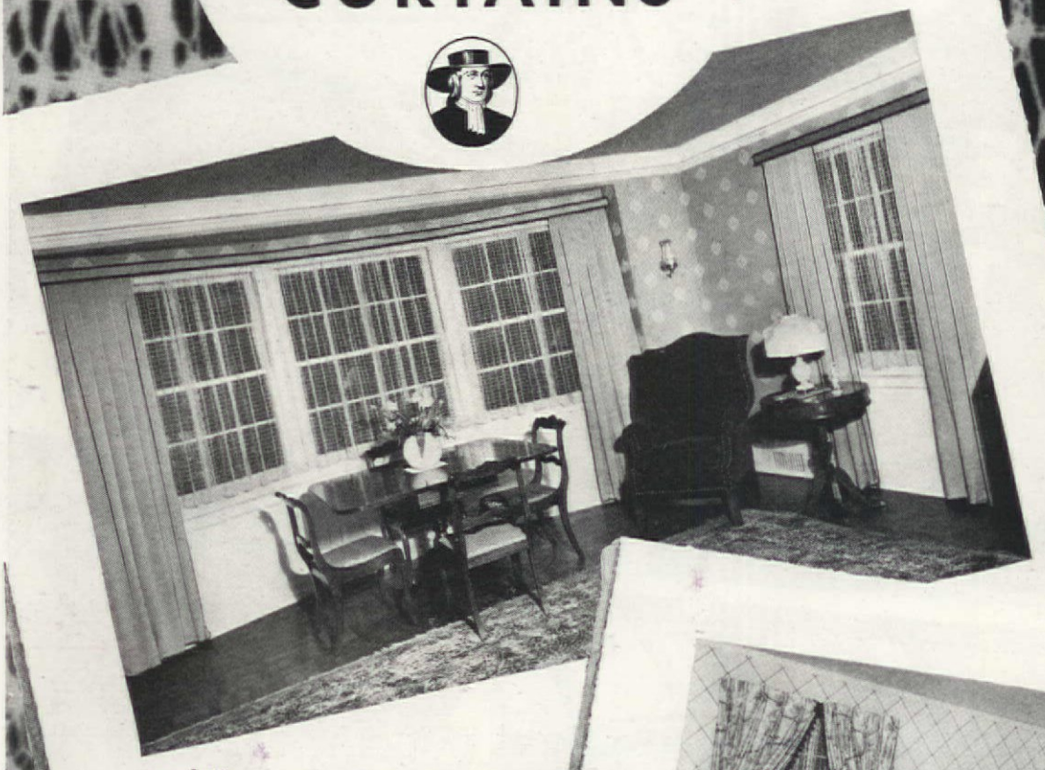

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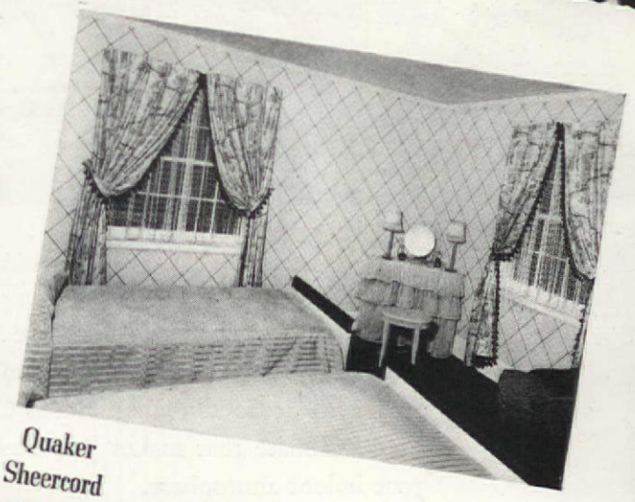

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COLOR PHOTOGRAPH by BRUEHL-BOURGES of the House of the Four Dormers built by H. & S. Sonn, Inc., at Sunny Ridge, Harrison-Rye, N. Y. Paint and Glass give this house much of its ingratiating charm. Outside White Sun-Proof Paint on the body of the house is accented smartly by Kentucky Green Sun-Proof trim. The shingles are given sparkle and style by a finish of Walnut Tor-On Shingle Stain. And all windows are glazed with clear, brilliant Pennvernon Window Glass.

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Paint { PITTSBURGH PLATE GLASS COMPANY } Glass

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NATURAL COLOR PHOTOS BY F. M. DEMAREST

Complete description of house and furnishings will be found on the following three pages

We furnish a five-room house for $1200

Photographs by F. M. Demarest

RLOTTE L. EATON

HEN first we were invited to plan the com-plete furnishings and decorations for a five-ouse at a cost not to exceed $1200, it seemed e enough task. As we got to work and began ze the cost of individual items—mattresses ings, floor coverings, kitchen range, and re-or, all the furniture, window shades and curtains, and lamps, to say nothing of the ies that seem essential whether a house be small, our doubts began to loom as large udget was small! Not but that it could be y accepting inferior quality standards all he line, but we are sticklers for sound mer-e, well made and of good design, without mise! However, that it can be done and en done, the photographs on these pages trate. Now we are glad we accepted the on of the Housing Research Project of University at Lafayette, Indiana, to plan erior of this house at this more or less arbi-gure, because it has proved a valuable re-project in its own right.

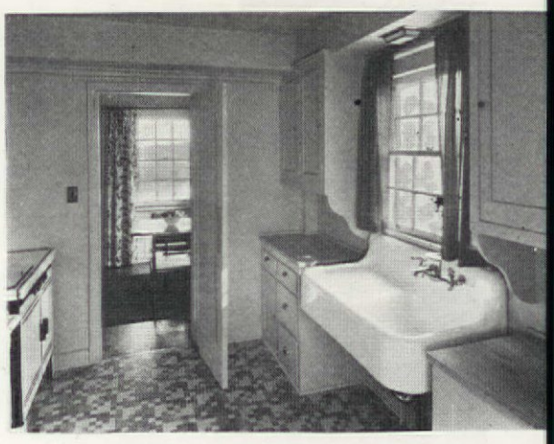
ue University set out to reveal, by actual n, under normal conditions, and with an d and non-commercial point of view, the ities of producing better homes at lower They discovered that two thirds of the

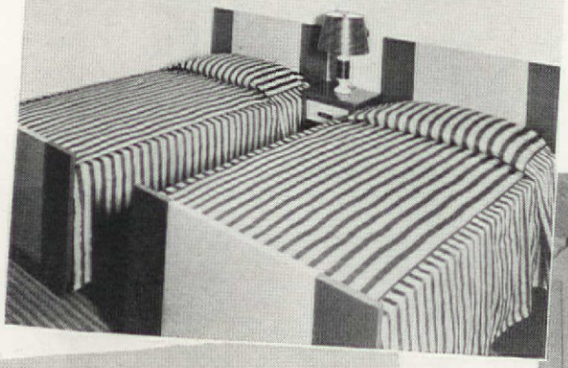
The two photographs above show the living-dining room, and the relation of the living room furniture grouping to that of the dining room. Note that they are kept quite separate and distinct, so that the use of one will not interfere with the other. The door in the top photograph leads to the kitchen

To the left and below is shown the daughter's bedroom, in yellow, terra cotta, and green, with metal furniture

families in the United States have incomes less than $200 that they cannot afford to own or rent houses costing than $5000. It was determined, therefore, to limit the re project to the $5000 house.

Upon a large acreage, donated for the purpose, a n of houses have been built and are under construction, ea making use of different structural materials to the en ultimately it can be determined why houses cost wha do, how costs can be reduced, what improvements may sirable. Through this study it is hoped that a way m found to make it possible for the average American citi own an adequate house that he can afford. The pro followed in erecting these houses is exactly that which be faced by the individual who set out to build himself a The problem is placed in the hands of an architect, bi obtained from contractors, materials are those normally able in any locality, labor is of the type and quality no



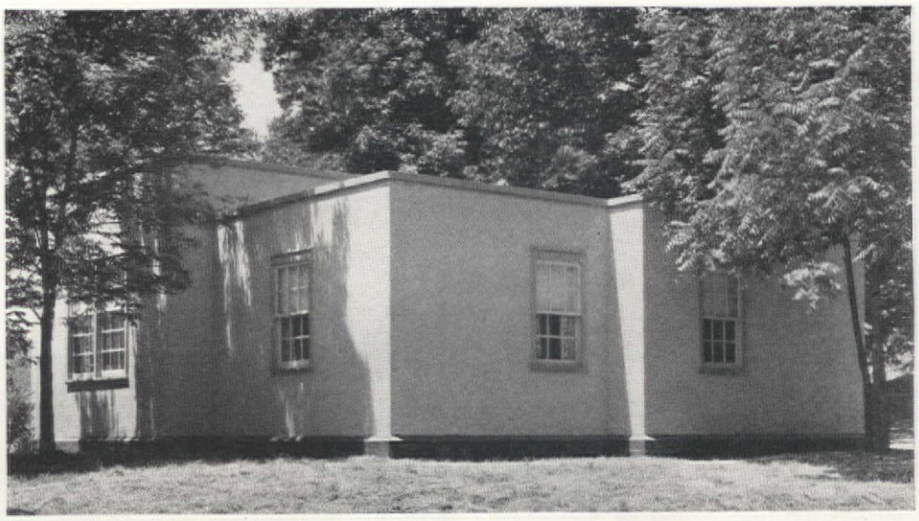


The kitchen is kept simple, with off-white walls, predominantly green adhesive linoleum, green curtains

Two bedside tables, each with drawer and cupboard storage space, are placed beside the bed in master bedroom

The boy's room, in red, white, and blue, with rope patterned rug and rope trim for curtains and bedspread, is furnished with a double-decker bed and ches

The rear view of the house, right, and the front, below, show the simple geometric design of the architecture



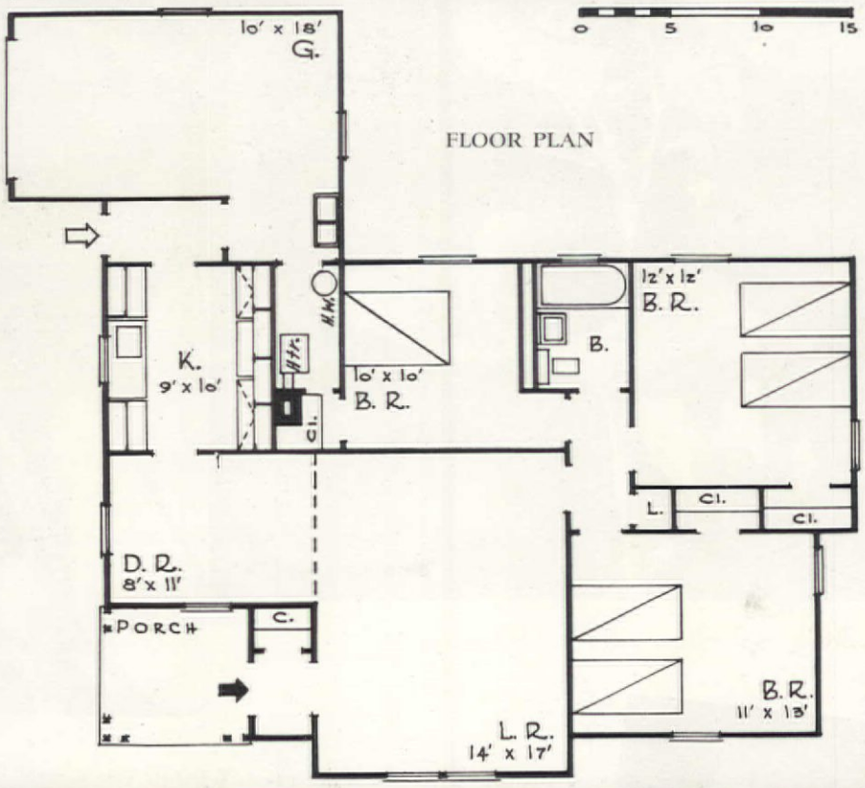
on construction work of this kind, and all are those the average man normally has y when building a house.

e houses when completed will be lived in embers of the scientific staff of Purdue ersity, who will act as observers of the rmance of equipment, collectors of data perating and maintenance costs, and as of facilities in general.

signed by the Insulated Steel Construction pany, the walls of the house decorated urnished by THE AMERICAN HOME are of less steel sections, painted inside and out, filled with insulating material. Windows f wood and double-hung. Cast iron piping talled, and the heating unit is an auto- gas furnace. The garage is attached. The rn design of the building presumably was sitated by the materials and the $5000 imit which was designated.

glance at the plans discloses a small vesti- with its coat closet, an L-shaped living- g room, three bedrooms, each with its own , a linen closet, bathroom, and kitchen. our judgment, a modern house such as automatically prescribes a decorative e along modern lines, one generally ac- ble to the general run of people and not me. Since the walls of the house are of with panels abutting but not joining fast, nstalled with round-headed screws pro- ng over the surface, wallpaper is out of uestion and texture paint was specified, er satisfactorily. This was kept as smooth ractically possible, to remain consistent the plain surfaces, simple angles and lines go with modern architecture. Colors were ed in keeping with the trend in modern ation, and were depended upon to supply n interest which was otherwise lacking.

[*Please turn to page 101*]



How a NEW ROSE is ma

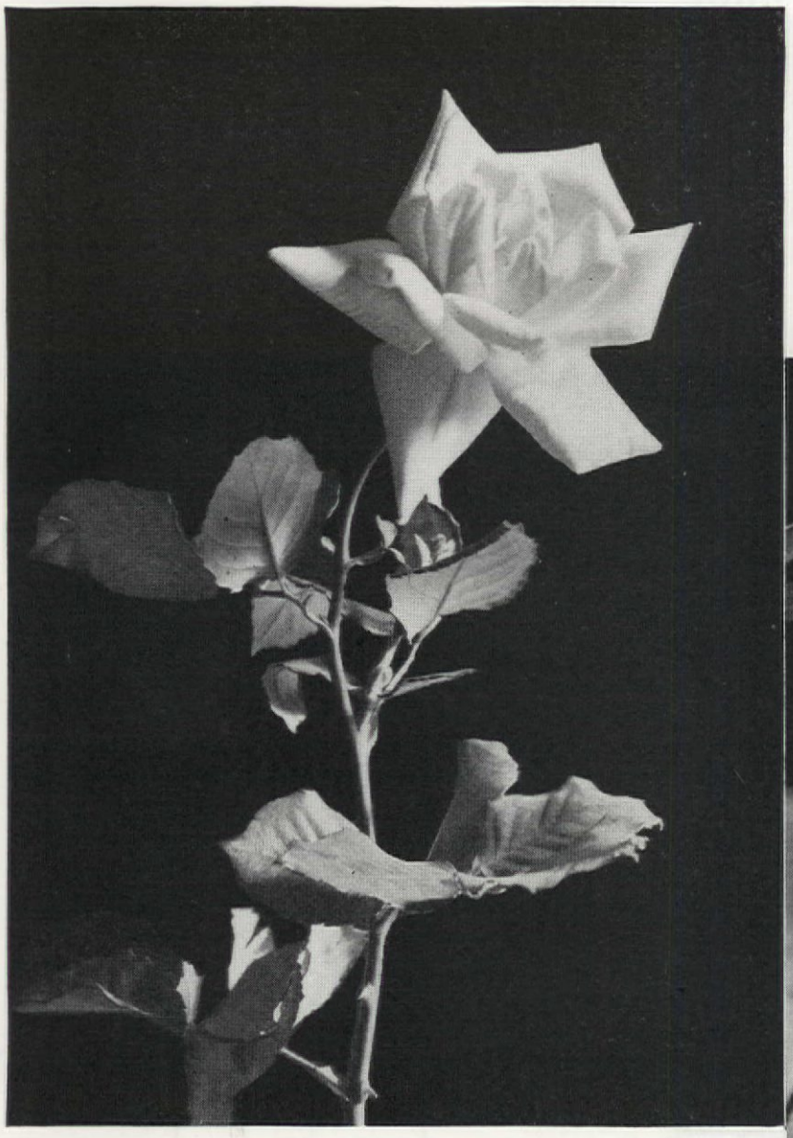
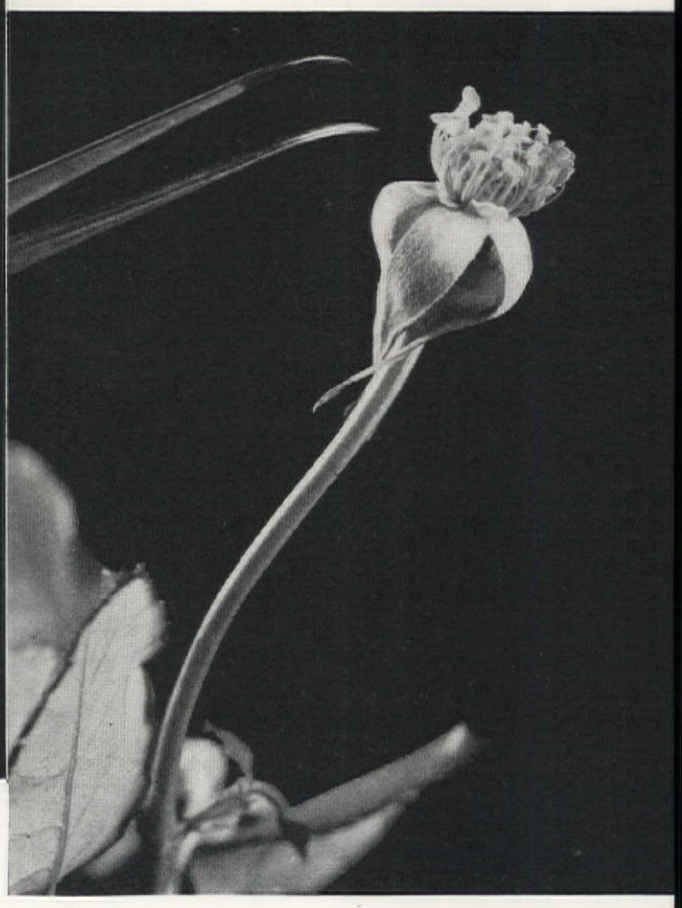


Fig. 1. At this stage the Rose bud is ready for use



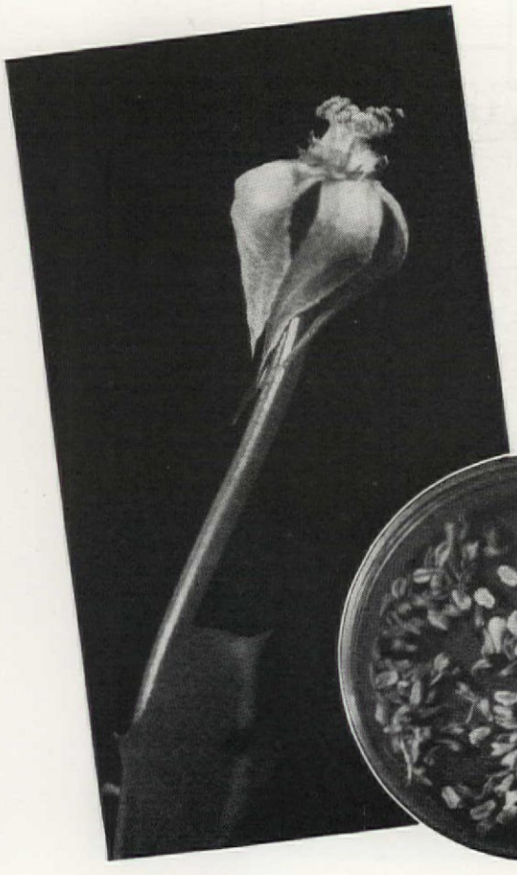


Fig. 2. The petals are removed to permit removal of stamens by tweezers

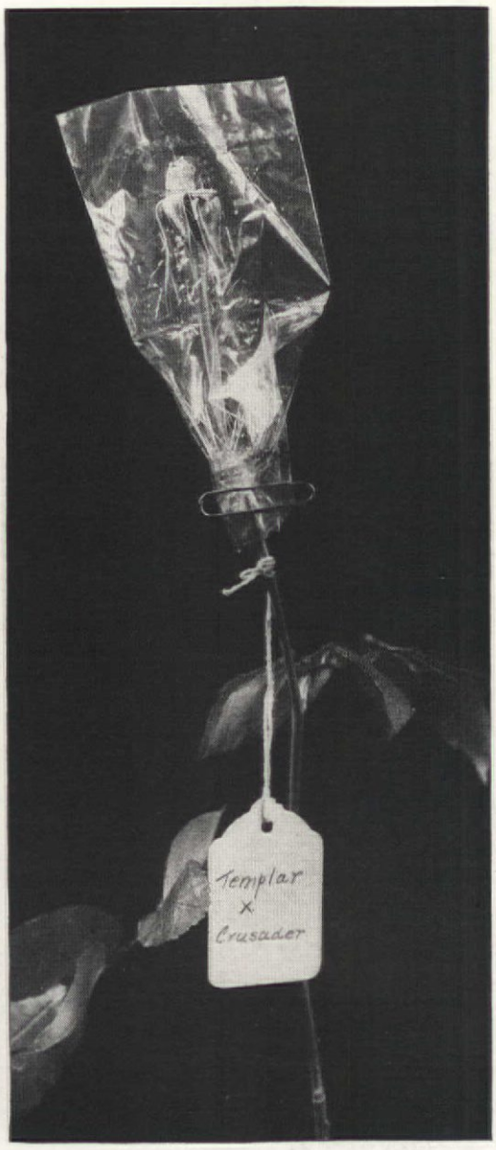
Fig. 3. Left: The compact group in center is the pistils where the pollen from another flower is carefully placed

WHEN as a small boy I first learned of budding and grafting, mediately got out the old jackknife and proceeded to o regardless of species, variety, results, or consequences. A few year I listened to a talk on fruit breeding by Dr. H. J. Webber, then pr of plant breeding at Cornell University, Ithaca, New York. Again an attempt to put science into practice. I had learned to distingu pollen from pistils, and so proceeded to administer liberal doses former to the latter. The results, of course, were nil; but the fact r that I had been inspired, I had acted, and today I am one of professional horticulturists who gets a "big kick" out of plant greatly enjoys association with horticulturally minded people.

In presenting a very definite phase of a most intriguing subject it with the hope that perhaps others may receive an inspiration may take them along "glory road" in the field of Rose breeding.

The most important need in Rose growing throughout the No

Fig. 4. and Fig. 5. Anthers re from the pollen parent (left). pollen is discharged from the ri anthers (shown in petri dish,



6. Pollen may be applied to pistils with the finger or camel's hair brush. Fig. 7. The nated pistils are guarded from contamination by foreign pollen by a protective bag

confronted with a real challenge. Practically all the hardy Roses are single, or one time bloomers. Consequently it is necessary to combine them with some of the best Hybrid Teas and Hybrid Perpetuals, and not all of these will cross with the hardy species. Once a line of crossing has been effected, it is then a matter of trying and testing until the right combination is found which will result in the production of viable seed. After plants of the first generation from a cross have been produced, then by selfing, back crossing to either parent, or sib crossing between individuals of a progeny, there is a possibility of combining in one Rose, hardiness, quality, and everblooming. Recombinations of the factors which were carried by the parental varieties may be brought about in this way. If amateurs throughout the country would take up Rose breeding as a hobby, there is a possibility that many hardy, quality Roses would be developed.

The hardy Rose species which perhaps offer the greatest possibilities as parents for combining with the better sorts are Rosa rubrifolia, setigera, lucida, humilis, nutkana, rugosa, dumetorum, blanda and rubiginosa. In the better sorts Crusader, General Jacqueminot, Gaiety, Templar, and Gruss an Teplitz offer a source for the addition of quality and continuous bloom. Templar is compatible with a number of species, especially with R. rubrifolia. General Jacqueminot takes well with rugosa. Rosa lucida and humilis are of importance because of their hardiness and the beauty and disease resistance of their foliage.

A review of the standard literature on Rose growing indicates that there is very little information available on the actual technique of Rose breeding, and without such information

[*Please turn to page 113*]

s is a hardy, continuous blooming variety. amateur who is interested in just Rose ding may attain considerable success if he nes his efforts to the development of Hybrid and Hybrid Perpetuals, as in this line of ding it is only necessary to find two or three patible varieties with which successful cross- an be carried out. Then one can go forward the assurance of developing a reasonable ber of sorts with real merit.

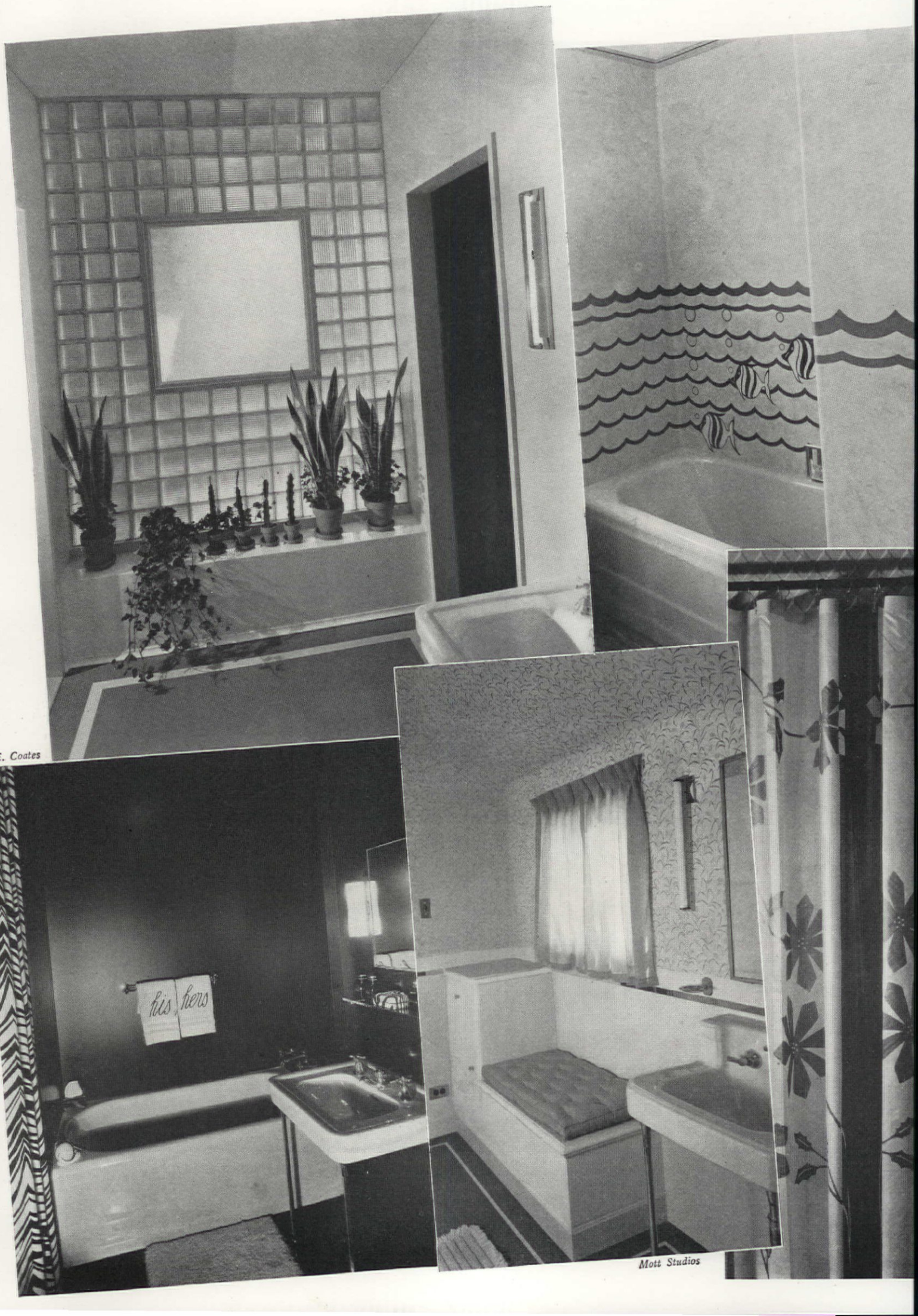
owever, when the amateur begins to con- Roses from the hardiness standpoint, he is

9. Rose seed res stratifica- or about five hs at 40-45°F.

Fig. 8. Ripened rose hips

Told and photographed by T. J. MANEY

Pomology Subsection, Iowa Agricultural Experiment Station



R. E. Coates

Mott Studios

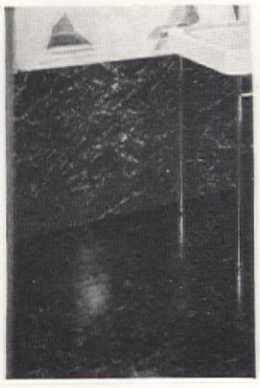
Ideas for dowdy bathrooms!

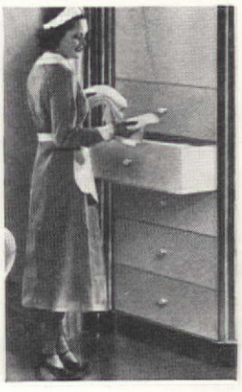
Peach is a favorite color for bathrooms, and is used for the one designed by W. & J. Sloane, above. Walls and the Mayfair shade are of creamy beige, while peach color is used for the plumbing fixtures, towels, and moire curtains

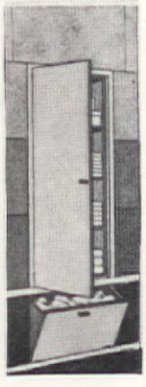
HERE are so many new ideas and devices for making bathrooms, not only decora- and individual, but convenient and effi- t, that there is no longer any excuse for ing a dowdy bathroom!

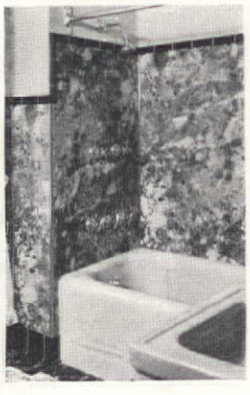
Consider, for instance, the end wall of ctural glass, set above a low shelf for nts or gadgets, in the bathroom designed B. Altman & Co. and shown at the upper on the facing page. Beside it, an illus- ion of Armstrong's blue Linowall walls, h inset waves in a darker blue linoleum, fish in black and yellow Linowall. There lots of new ideas in W. & J. Sloane's ign for a "zebra" bathroom, with black ls and floor, beige hand-tufted bath rug, ge and crystal plumbing, beige towels, and ra curtains printed in beige and black. te the amusing marking on the towels! e bathroom to the right of this would be rming in a country house, where wall- per is used over a dado of Carrara. The dern lighting fixture is interesting and hly efficient. The Kleinert shower curtain ernates broad light stripes printed with a k flower motif, and dark ones with light. would be particularly smart in a bath- m with dark walls. Birds make a nice nge from fish in the Thibaut washable llpaper shown in the small photograph at top of this page.

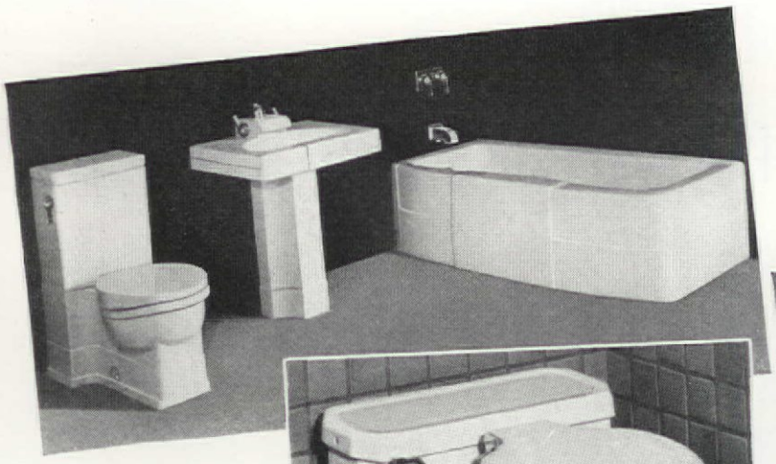
Across the bottom of the page, left to ht, are a lavatory with storage space be- th of drawn steel, finished in acid-resisting rcelain enamel in a variety of colors, made the Briggs Manufacturing Co.; marbleized inscoting of Johns-Manville Flexboard; an angement of linen drawers in a Briggs del bathroom; Kohler & Kohler's one- ce Integra closet for linen, with hamper neath; a bathroom with walls of Marsh oducts Co. "Marshtile" with chromium nings; and Kohler & Kohler's bathtub with ilt-in seat, called "Metric 3-way bath."

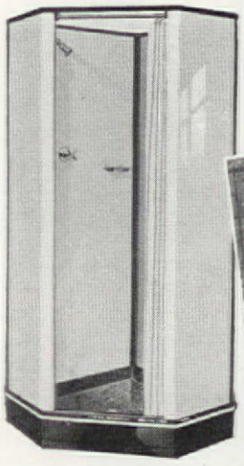








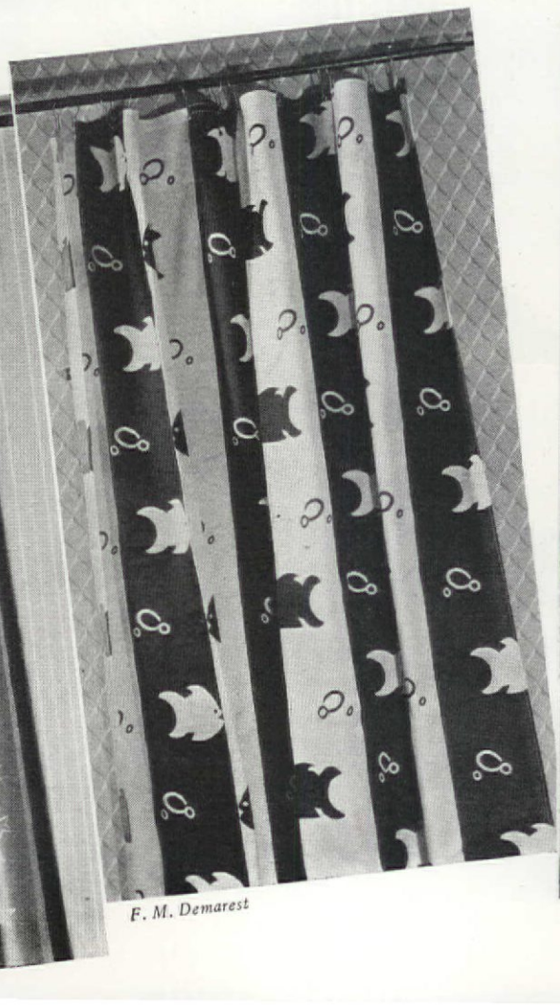




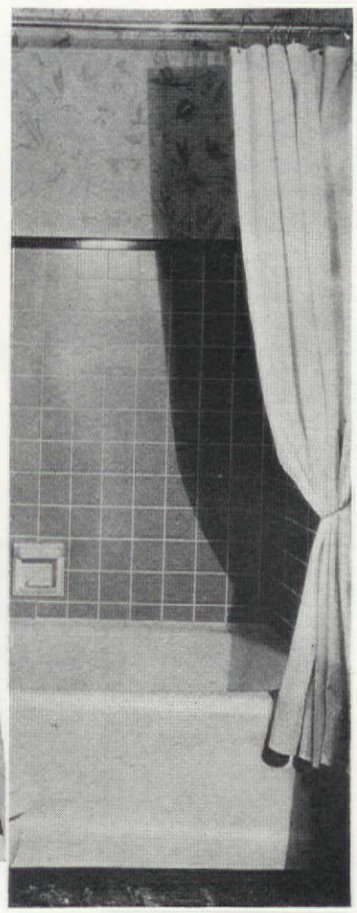
IN THE left-hand top corner of this page is a new Crane bathroom ensemble, designed by Henry Dreyfuss along stream lines, and called "Neuvogue." Note the unifying of waste and water control fittings and the semi-circular opening of the lavatory. There is a seat in the center of one side of the bath-tub. Below it is a one-piece water closet, which has no elevated tank and, since it is not attached to the wall it can be installed in corners, under windows or stairs, a similar difficult places. It is manufac by the W. A. Case & Son Mfg. Co. this is a cabinet shower with corne trance, which can be installed in a time in an existing bathroom, or se for a new one. The shower has a N floor. This shower is of special in where space is at a premium, since it not take up more than three feet squ floor space. It comes from the Henry Mfg. Co. Beside this is a lavatory k as "Winston," a Case product, equippe chromium towe

In the right upper corner a photographs ing the Arcod tem of interl wall sections able through American Ra Company. The tory unit in th ter combines panel a me cabinet, int lighting fixtu hamper under The panel a right conceal closet tank an vides a storage for linens and bathroom ac ries, as shown smaller photo The left-hand is the shower

Kleinert shower curtains: the "Illusion" in blue with silver stars; and an amusing fish pattern (shown below)



F. M. Demarest



Portion of a room sho Johns-Manvi bestos wains

An unbiased opinion—BUILD NOW!

PART II [*Part 1 on page 6*]

Now for all the other important points that must be considered by the prospective home builder. In the very first place—what about your lot? Is it properly and conveniently located in a residential section of the city, near schools, churches, stores, etc., and where values are increasing with the years? Remember we are not building a home just for today, next week, or next month, but what we hope will be a real, permanent family homestead. In the hectic, over-development days, of a few years back, many new sub-divisions were opened up all over the country. Some of them were in excellent, convenient locations and have been maintained all during the depression. The future is generally bright for owners of lots in such sub-divisions because the neighborhood is bound to grow and the property increase in value. There is no reason why these lot owners, having a steady income, should not plan to build immediately.

Other less fortunate buyers find themselves owning lots in developments where not a house has been built, the development company having become involved in financial difficulties, during the depression. Weeds and brush over-run the lots and even the streets that have been cut through, and generally the conditions are such that it may be a long, long time before such lots have any market value. Certainly it would be folly to invest good money in a new home in such a location. But even under such conditions there may be a way out.

Then there is a third class of lot owners. Perhaps they bought their lot many years ago, or had it left to them by a deceased relative, in a neighborhood that the time it was purchased had every indication of continuing to improve and becoming one of the outstanding residential sections of the city. With the years conditions have changed. Perhaps stores or other business property have crept in, changing the entire section from a high-grade residential neighborhood to a business or commercial area. Certainly there is a way out for this group.

You are going to build a home—not just a house—a home for you and your family, a home that you will be proud of not only today but through many tomorrows. It may be that you will invest the savings of many years in that home. Under these circumstances it will be readily realized that the neighborhood—not only today, but for tomorrow—is of the utmost importance.

Not many of us, engaged in other lines of business, can be expected actually to know very much about real estate, values, trends in neighborhoods, and that kind of thing. We would hardly expect a real estate expert to come and tell us how to run our business or expect him to tell us competently what the future possibilities may be in our particular line. Nor would we expect an expert dental surgeon to make a good pair of shoes. Therefore in undertaking such an important task as the building of a home we should secure the services and counsel of experts, people who are devoting their time and attention to real estate values, trends, new developments in construction, and all of the hundred and one details, just as we are devoting our thought to our own business or profession. In a great majority of cases we are investing more money in that home than we will ever again invest in any single purchase.

Therefore, it would be a most wise investment, right from the start to secure the advice, counsel, and services of the most highly recommended realtor in your neighborhood. The first job for him would be to inspect your lot carefully and give you his best advice regarding its value and the present and future of the neighborhood in which it is located. The sincere, honest advice of such an expert, who is constantly studying conditions and trends in your city, and who will give you the benefit of his long knowledge and experience will be worth many times the small fee he will charge you and may save you from a great deal of future worry or monetary loss. Further than this, if he finds that the lot you own is not suitable for the type of home you plan to build, it is highly probable that he will be able to effect an exchange for another site in a more desirable location, much to your advantage in every way. The realtor can serve you again later in a most valuable way by arranging for and looking after all of the details in connection with your construction loan and your long term mortgage, thus saving you a tremendous amount of valuable time and unpleasant bother.

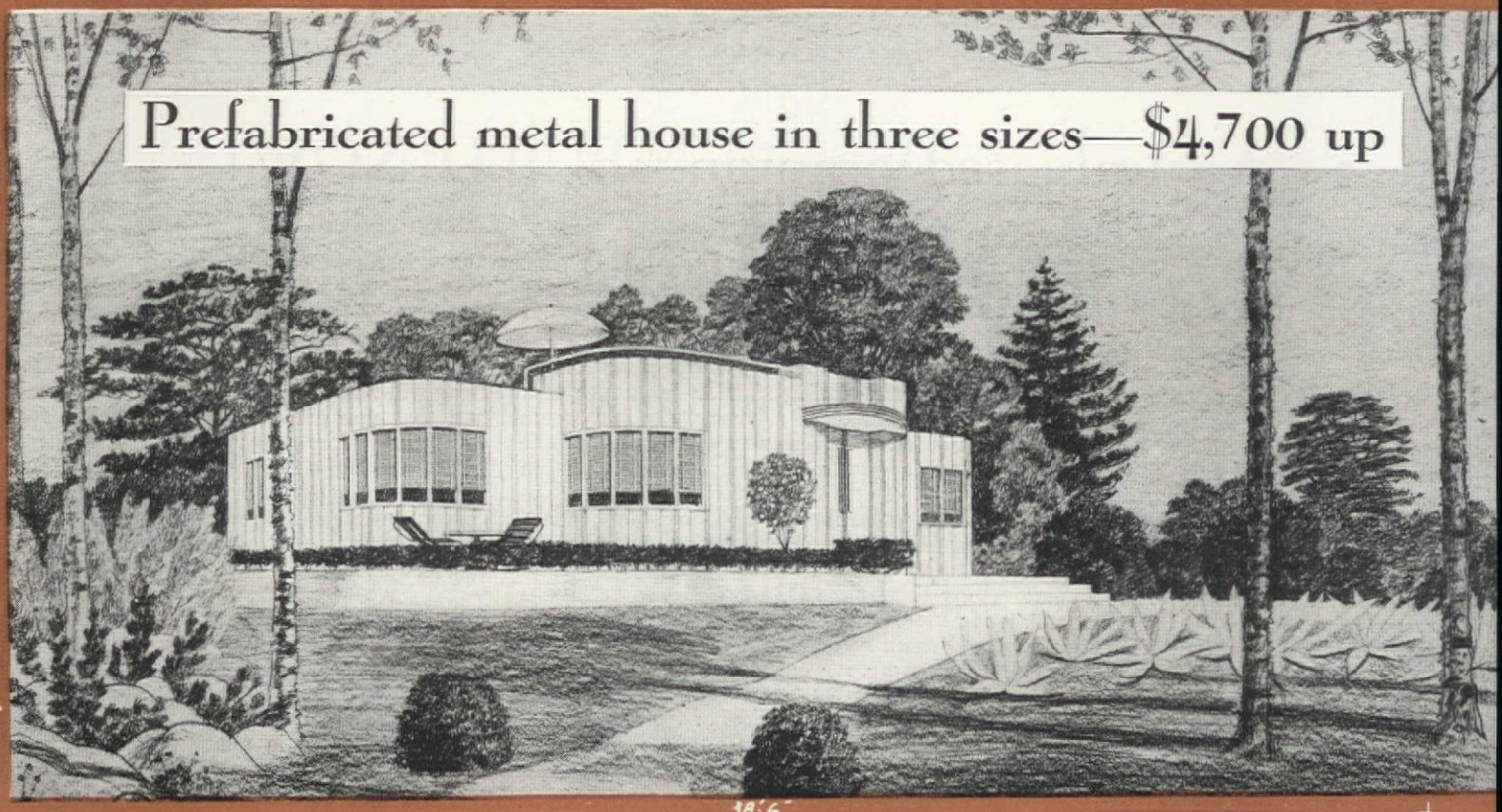
When the lot question is settled, the next step is to consult a reliable, residential architect. In fact, again, I would go to the most highly recommended architect for homes in your city. If you do not know of one, without doubt the realtor can recommend such an expert. Many people will immediately question the necessity or advisability of adding the expense of an architect to the cost of your home. My answer, based on long experience and studies in every section of the country, is very positive. The right architect will save you many times his fee, in the long run, to say nothing of worry and much future expense. We have already admitted that the average family knows little or nothing about real estate and certainly it knows less about the intricacies of construction. A poorly built house, from a hit or miss design, with little or no supervision during construction, can never be made a home and becomes a liability instead of an asset. A competent architect will not only give you the best in modern design and arrangement but will take the great burden off your shoulders of watching details, during the period of construction. Through this supervision you will be assured that everything will be done according to specifications and that you get a full dollar's value for every dollar expended. In further support of architectural design and supervision it has been interesting to note during the period of heavy foreclosures and forced sales in recent years that comparatively few houses designed and built under architectural supervision have been found on the market and when sales were necessary they did not remain on the market very long.

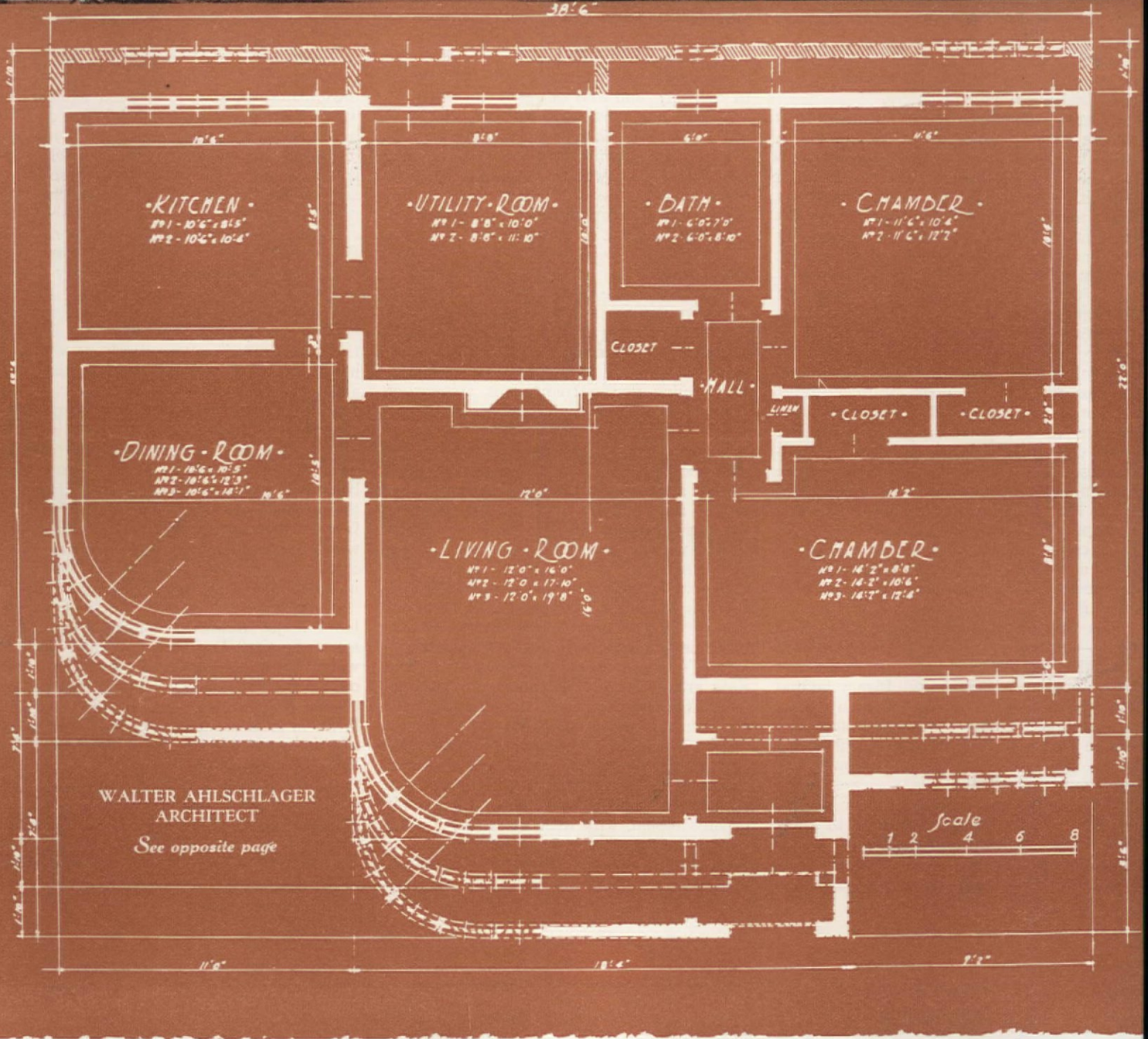
Naturally there are a great many points that should be considered with great thought and care in relation to the actual construction of the home. But that is another story. There is just one, however, because of its major importance that should be stressed whenever home construction is discussed. Certainly under any consideration it is the utmost folly to build a home today without the greatest possible protection against the weather through adequate insulation and air conditioning. It is most important, if air conditioning equipment is not installed when the house is built, that the plans are so made as to make future installation possible and practical, with a minimum of trouble and expense. There is no question in the mind of the writer but that the air conditioning of our homes is the next great industry to develop in this country.

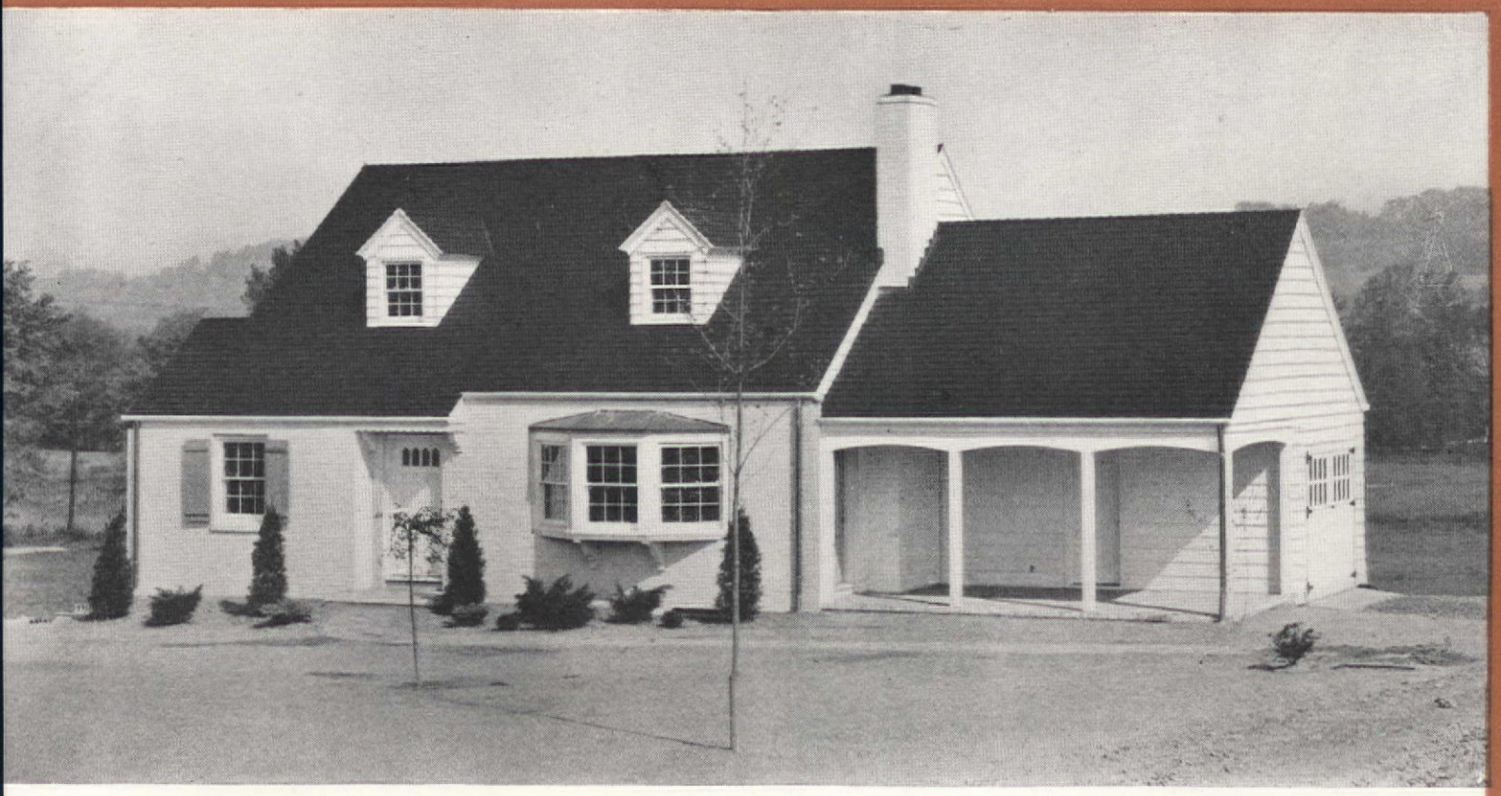
A final word to any who may still be hesitant about building. We are short in this country today very nearly two million homes. Our normal home construction runs about 400,000 annually. During the last few years this has dropped to an average of about 5,000. The shortage of dwellings has already been felt in many localities and will increase very speedily. Families that have been doubled up and tripled up in dwellings are seeking their own homes again just as fast as they get back to work. Marriages which decreased materially in the first years of the depression are now very much on the increase. These new families must have homes.

These conditions can lead to but one thing. Until major residential building operations start, the very law of supply and demand will alone send rents mounting. The worry on the part of those following such conditions is that rents will become almost prohibitive in some sections, for those who cannot afford to own a home. Those who can afford to build and do not do so will find renting far more expensive, with nothing in the end but rent receipts, and will be materially aiding in relieving conditions, in many respects, if they change their minds and actually start their new homes at the earliest possible moment. In other words—build now!

Prefabricated metal house in three sizes—$4,700 up







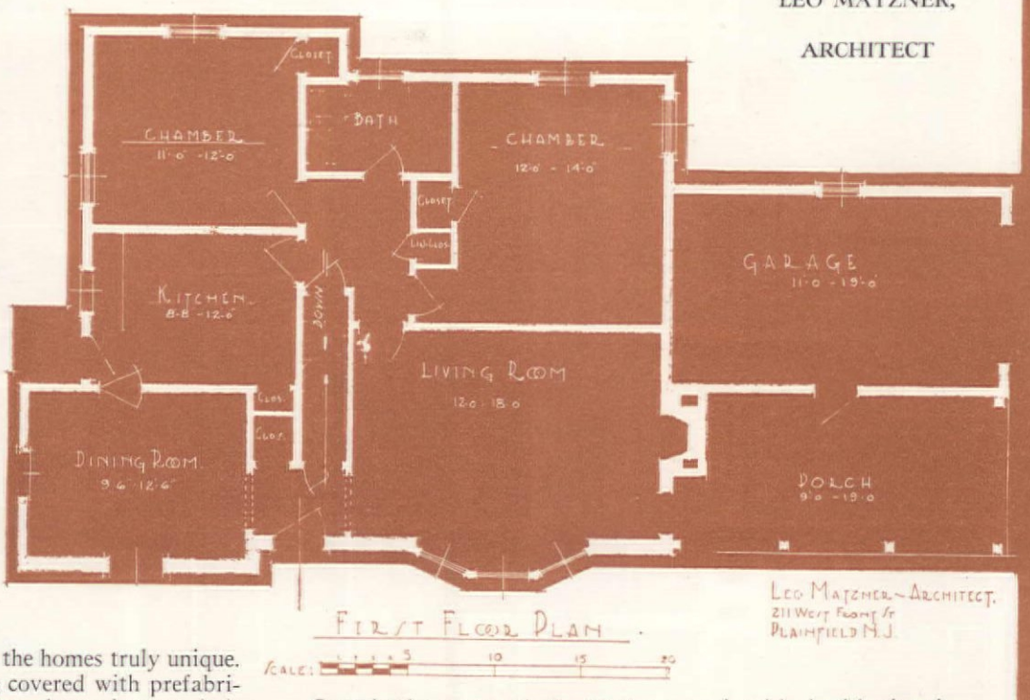
American farmhouse style, brick and frame construction

$6850 on a three-quarter acre New Jersey suburban plot

WHITE walls, black roof, blue shutters, blue flagstone porch floor. Insulation of rock wool, built-in radiation and oil burner steam heating plant. Attic unfinished for future expansion. Interior features include built-in dining room cabinets of knotty pine and pine flanking at living room fireplace. Tile bath, well-equipped kitchen with inlaid linoleum. Grounds are graded, seeded, and planted by builder who also puts in driveway. Financing on F.H.A. twenty-year mortgage plan available.

LEO MATZNER,

ARCHITECT



LEO MATZNER - ARCHITECT.
211 West Front St
PLAINFIELD N.J.

FIRST FLOOR PLAN.

SCALE: 1' 2' 3' 5' 10' 15' 20'

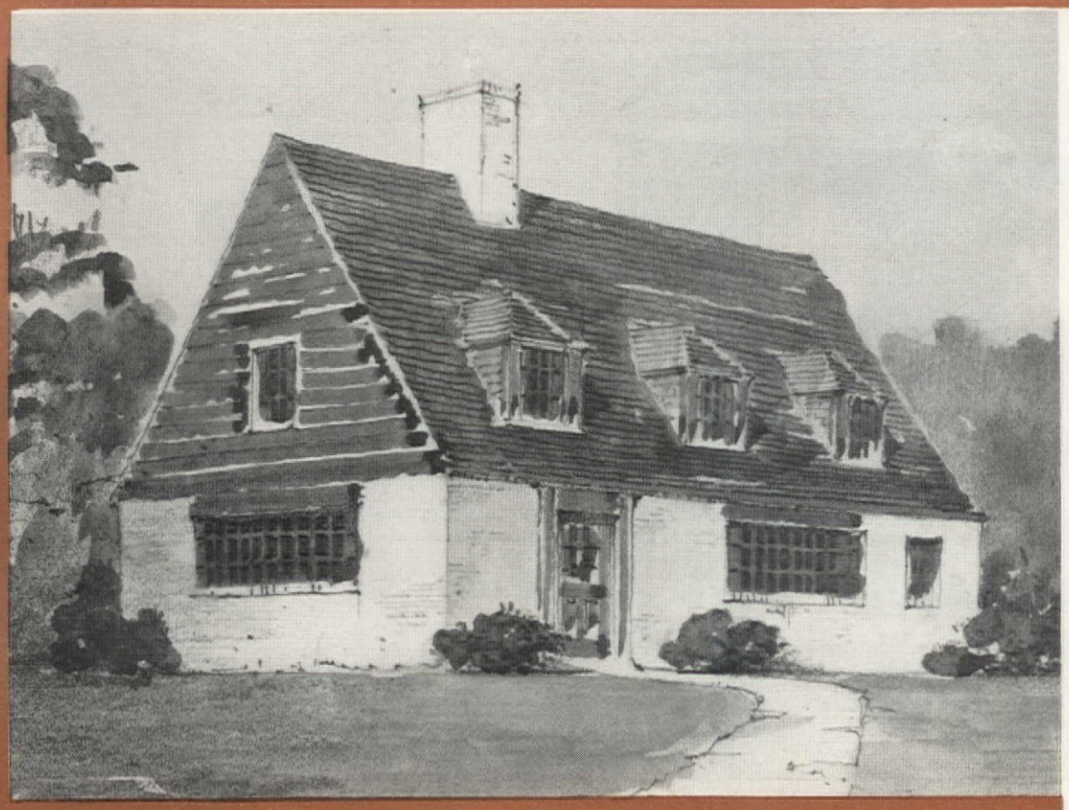
ON OPPOSITE PAGE:

A HOME, being built at Beverly Shores, Indiana, in the famous Dune country, exemplifies the new type of homes being designed by Walter Ahlschlager, well known architect. Mr. Ahlschlager calls the exteriors Modern American.

While the designs are original and interesting, it is construction which makes the homes truly unique. They have skyscraper type steel framing covered with prefabricated metal. The metal is 99.6% pure zinc, chosen because it is rust-proof, not merely rust-resisting, and retains the natural blue-gray color of zinc indefinitely. The material is manufactured in two-foot-wide plates, from several feet in length to plates three stories high, with no horizontal joints. Floor and ceilings are four and one half inch steel and concrete. Windows have double metal sash, and double glazing, with insulation between the inner and outer sash. The houses are completely insulated and air conditioned. Incorporating his vast experience in designing cold storage plants, Mr. Ahlschlager is using the same type insulation as used in cold storage warehouses of the rigid type.

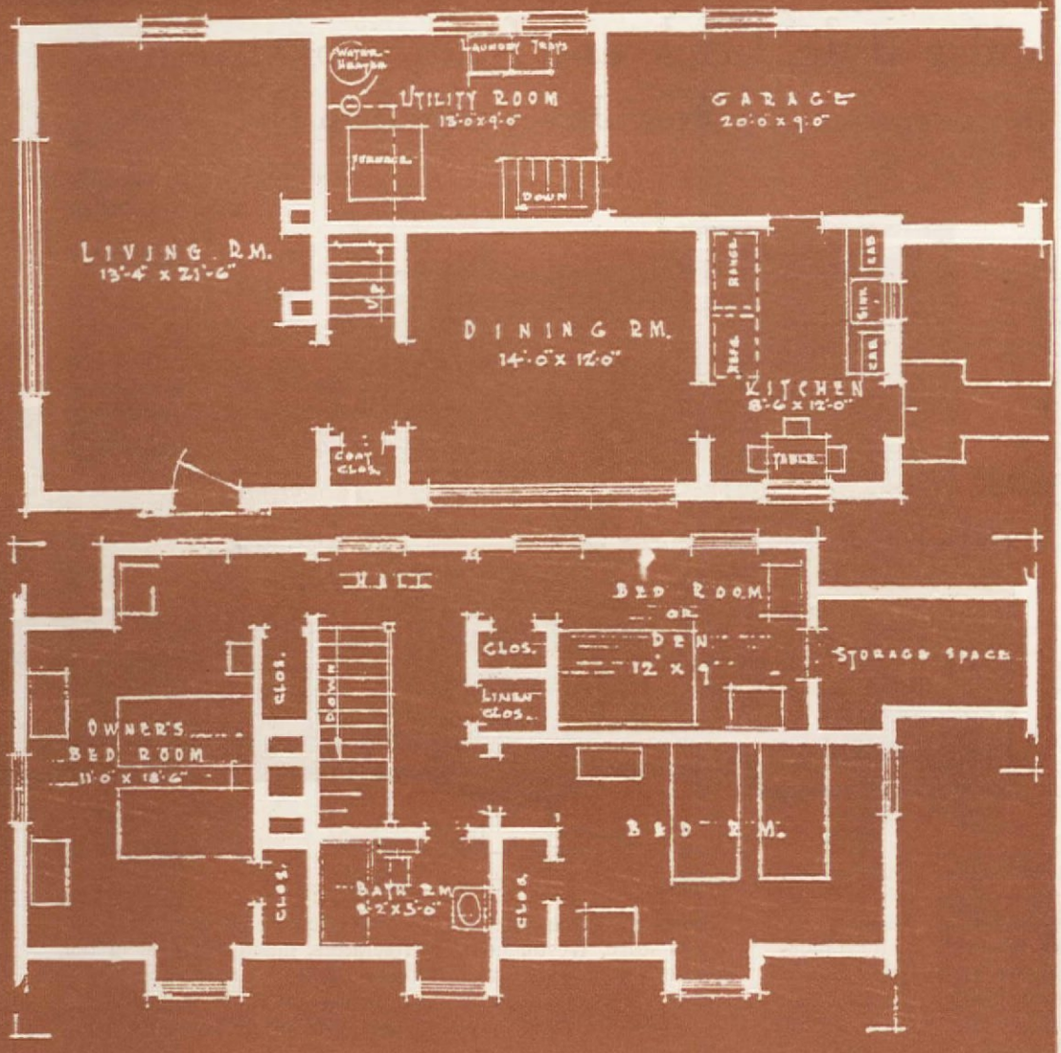
Completely equipped, the kitchens are furnished with electric or gas stove, Westinghouse refrigerators, metal cabinets, in the most efficient arrangement. Bedroom closets are cedar lined. Interiors are orthodox, and may be decorated in any way the owner desires. It is estimated that interior decoration will be necessary only every five years.

The one-story house shown may be built from $4,700 to $5,200. The floor plan shows the flexibility of these homes whereby each or all of the rooms may be enlarged. It may also be noted that there are no windows on the sides of either of these homes thus insuring complete privacy.—EDITH CHAPMAN SMITH



English cottage in So. Charleston, W. Va.

White painted brick, stained siding gable ends; steel sash; water-proofed concrete slab base for economy and termite-proofing at a cost of $7,300



WARNE—TUCKER—SILLING
ARCHITECTS

THIS story-and-a-half, seven-room white brick English hillside cottage was designed for the hillside lot of Mr. and Mrs. T. F. Carruthers in So. Charleston. It is interesting in its distinctive design and interesting in its construction.

* * *

There is no basement. A water-proofed concrete slab on earth with an asphalt tile wearing surface joins a masonry wall painted on the outside and plastered on the inside, thus providing economical construction and termite-proofing.

* * *

The first story is of brick construction, the second story frame with stained gable ends. Extra space has been provided at rear of second floor by a dull dormer. Window sills are slate and the roof insulated. Built-in garage and utility room have concrete slab floor. Upstairs floors are hardwood, bathroom floors are covered with linoleum.

* * *

First floor interior woodwork is stained; varnished enameled on second floor. Kitchen, like other first-floor rooms, has asphalt tile floor. A forced air heating system is located in the utility room where space is provided for laundry tubs, etc.

* * *

The living room is very large, with three-way ventilation, as has the kitchen. The second floor has three large bedrooms and ample closet facilities are provided.

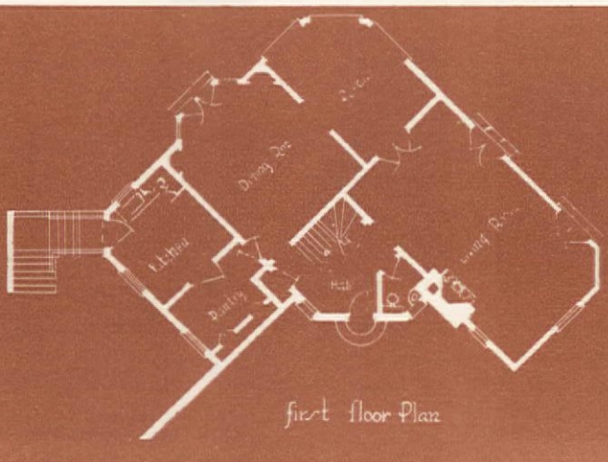
Air-conditioned, five-bedroom house

under $10,000

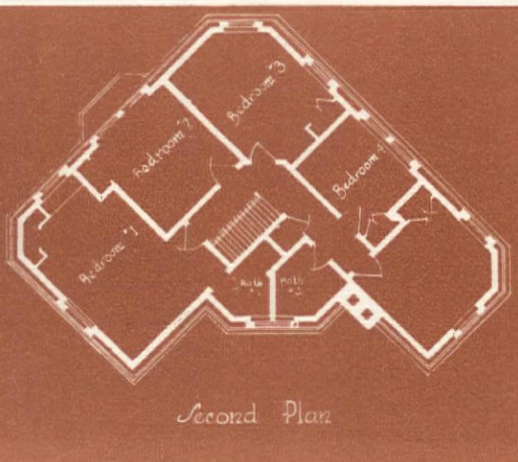
including architect's fee and landscaping

Jessie Tarbox Beals

The home of Mr. and Mrs. Isaac Curtiss in Glencoe, Ill.



first floor Plan



Second Plan

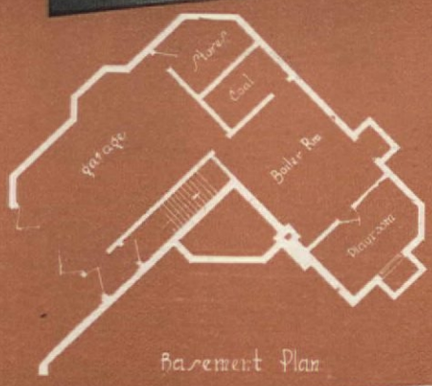
Frank Polito, Architect

Root & Hollister, Landscape Architects

See following page for details

This home is located in Glencoe, Illino twenty miles north of Chicago. The Curt family has lived in the house a year and a most enthusiastic about it. It is a comple house with five bedrooms, two baths, toil and a two-car garage. The entire house w carefully studied to use every square foot space to the best advantage. On the first flo the hall was made very compact, but the eff of a large space was achieved by the arch opening into the living room. The owne room has a private bath with the nurse a children using a bath from the hall. T clapboard and brick exterior are paint white with a dark brown roof and blinds.

Walls in all rooms are papered, and ceilings sand finished in all rooms except the kitchen and bathrooms which are painted



Basement Plan

The entire garden area is arranged with axis on the living rooms of the home and provision for an attractive display of flowering shrubs and perennials. There is a small entrance garden in the street angle of the house

Adaptation of Colonial in North Carolina

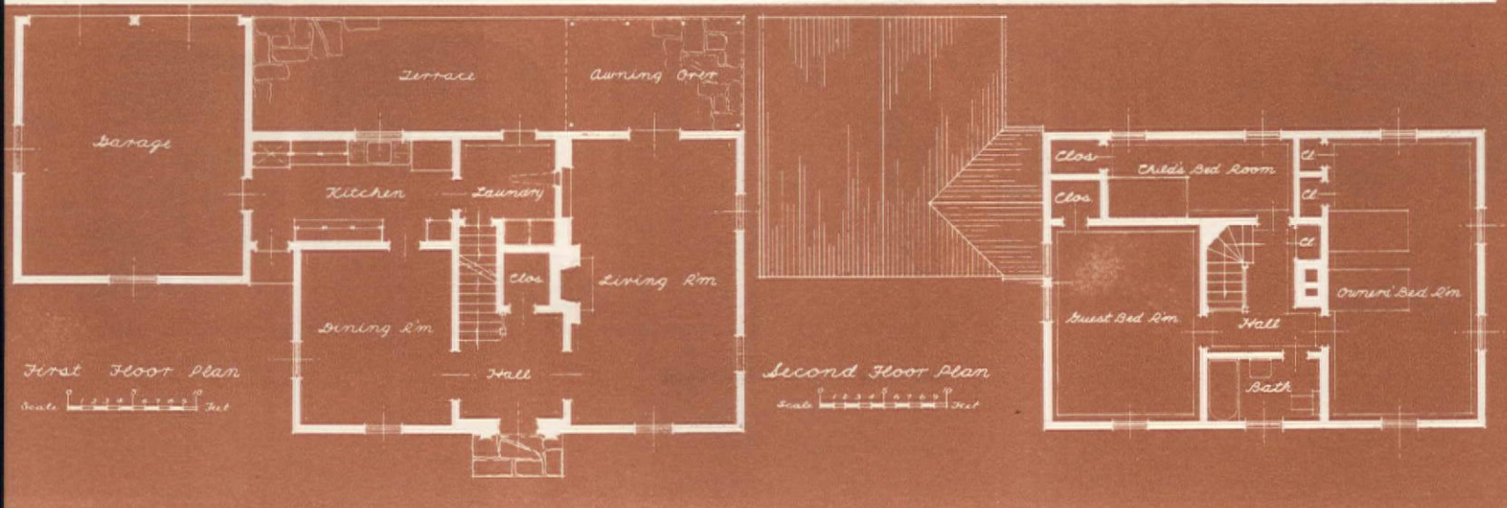
COST, $5625 TO $6750

THOMAS W. COOPER, ARCHITECT

HOUSE for THE AMERICAN HOME: The estimates are, of course, approximate and would vary according to locality and quality of finish. However, the suggestions relative to construction are consistent with a house in this price class.

The house (including garage) contains approximately 22,500 cubic feet. The cost will vary according to locality and quality of finish from 25 cents to 30 cents per cubic foot or from $5625 to $6750. The room dimensions are generously proportioned and allow furniture placement in a manner to provide comfortable circulation within the rooms. The house is designed for ceiling height of 8'-6" on the first floor and 8' on the second floor. The cubical contents are based on the assumption that the basement will contain space for the heater room and fuel storage room.

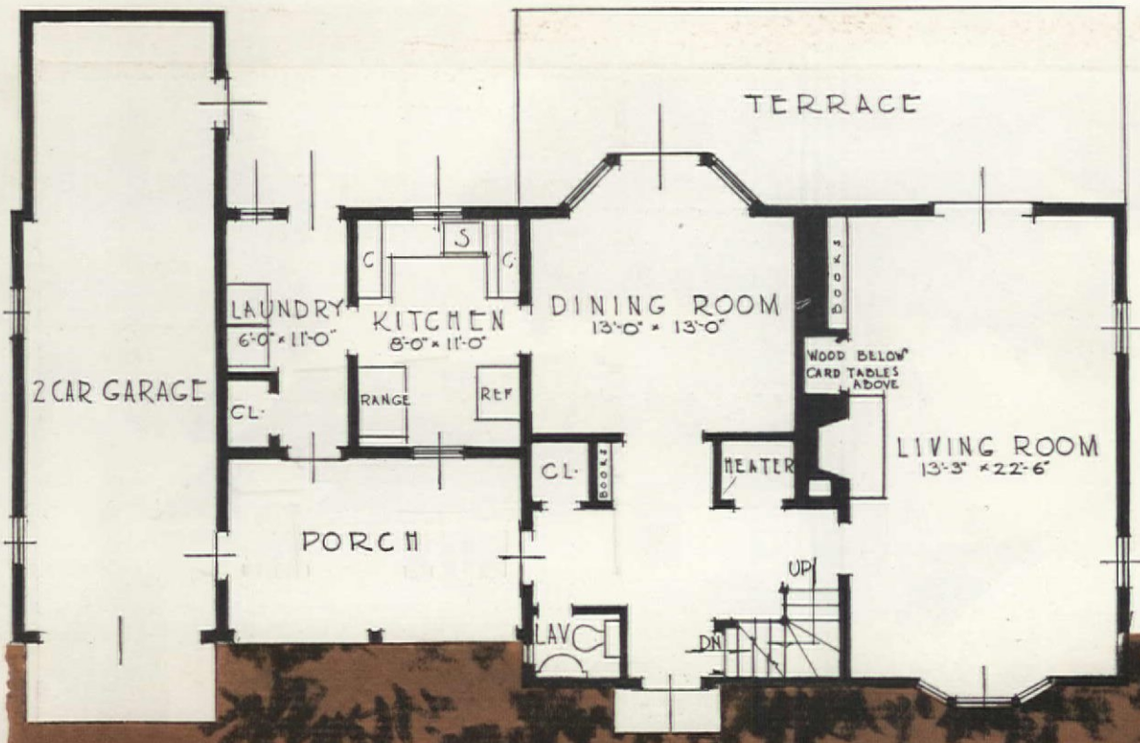
Foundation of 9" brick walls on concrete footings. Basement floor to be concrete on cinder fill. Walls and partitions of 2" x 4" wood studs, plastered inside and finished with either paint or wallpaper. Exterior walls to have wood sheathing, building paper and finished with beveled siding. Floor construction: 2" x 10" wood joists, ¾" sub-floor, building paper and random width clear plain pine floors. Ceilings to be lathed and plastered. Roof construction: 2" x 6" rafters, ¾" wood sheathing, 15# roofers felt and finished with 220# asphalt shingles. Flashing, gutters and leaders to be galvanized iron. Insulation: All exterior walls and the second floor ceiling insulated with 4" thickness of mineral wool, applied between studs and joists. Bronze thresholds and weatherstrips at all doors. Linoleum floors in kitchen and bathroom. Heating: forced re-circulating (winter-conditioned) warm-air heating with thermostatic control. Provision for air circulation in summer.

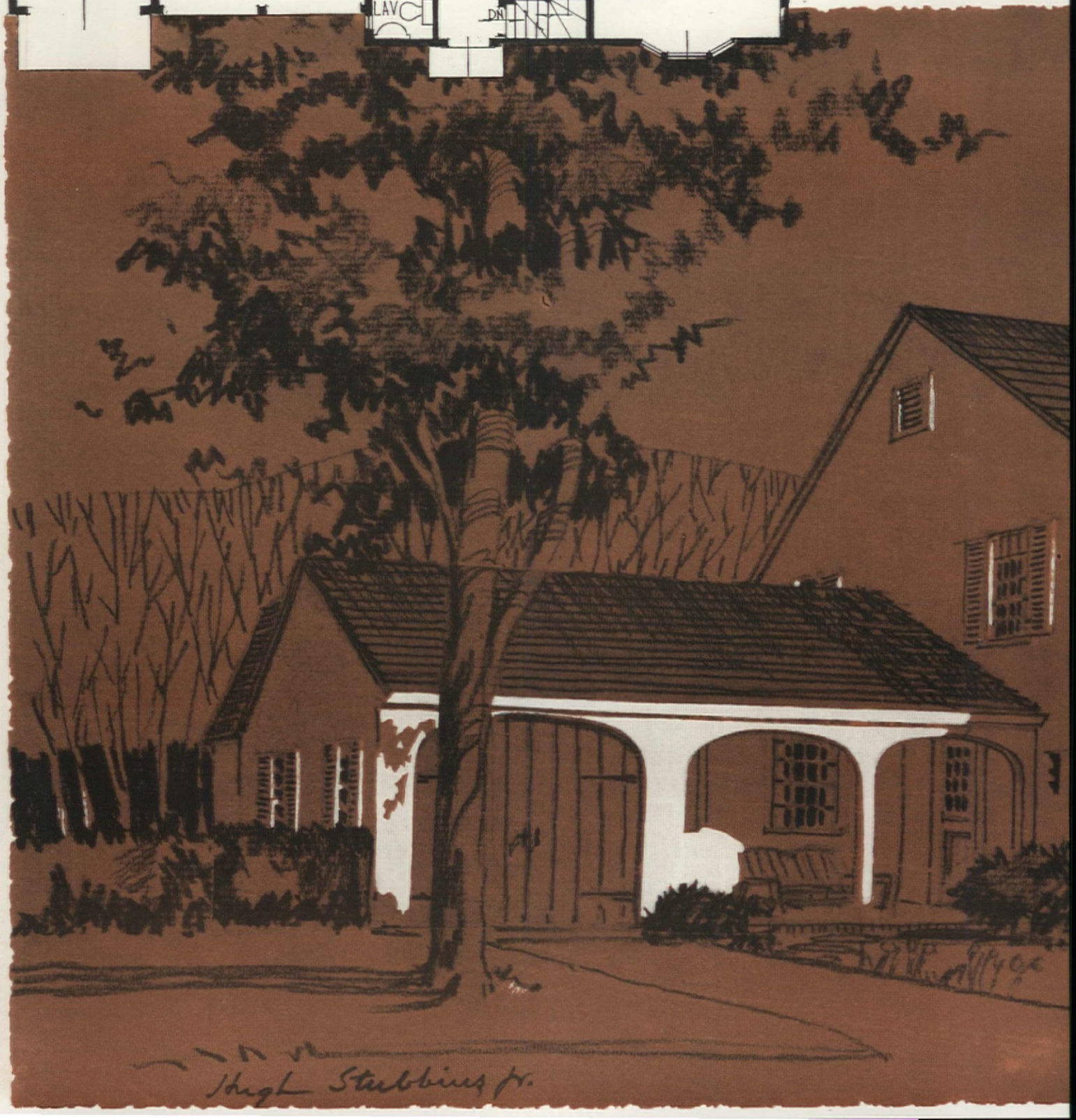


Our contributi

ROYAL BARRY WILLS

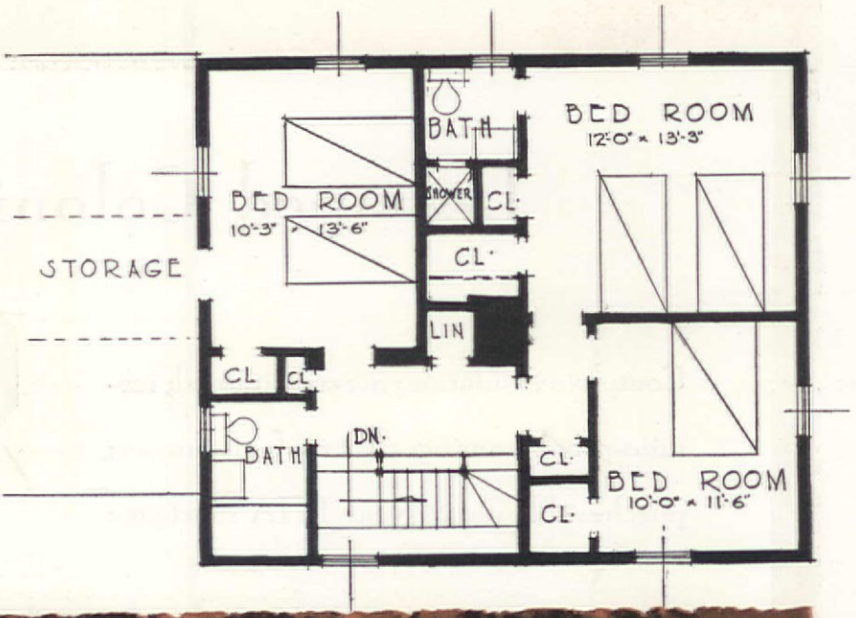
ARCHITECT

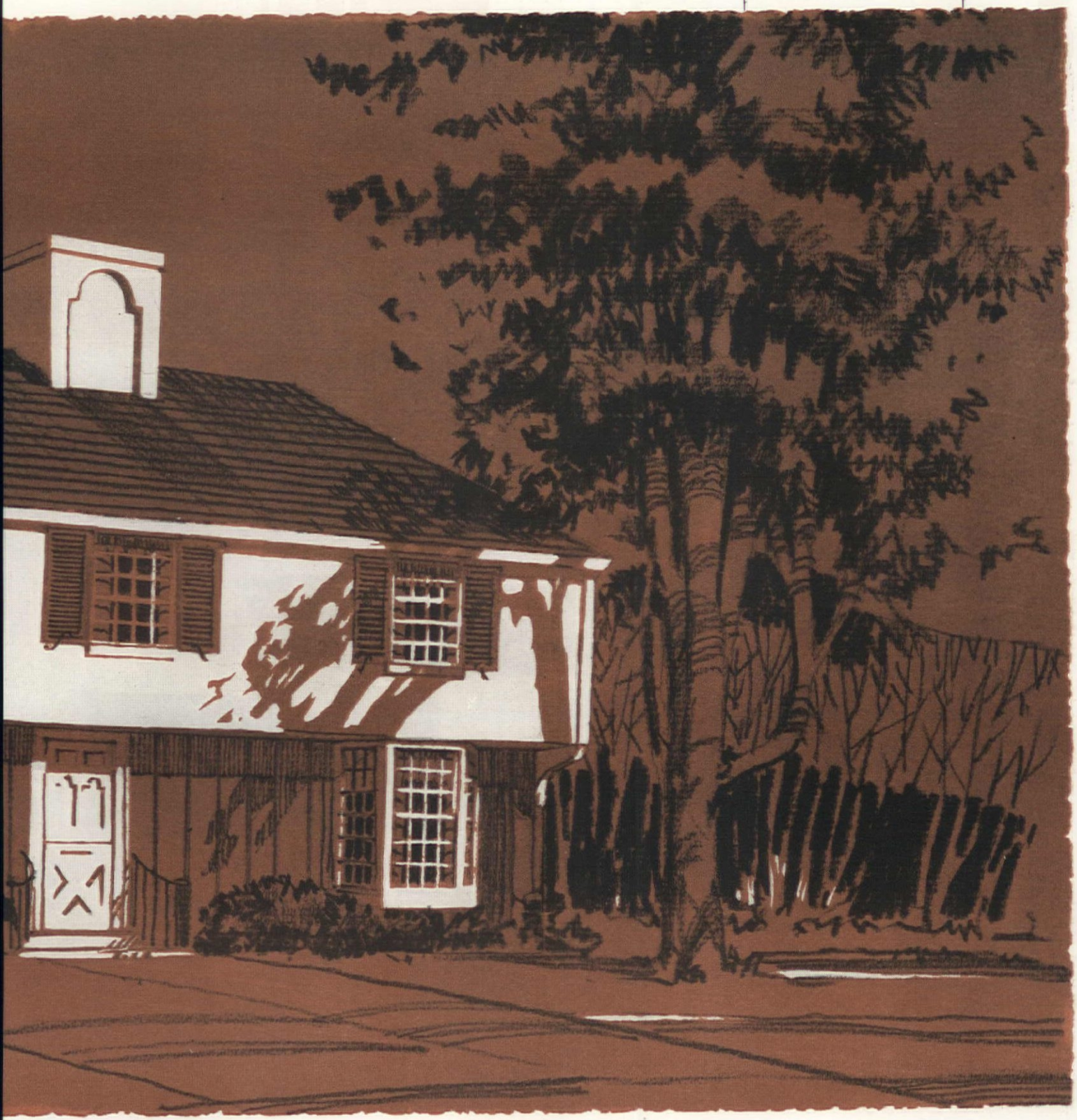




to better small houses

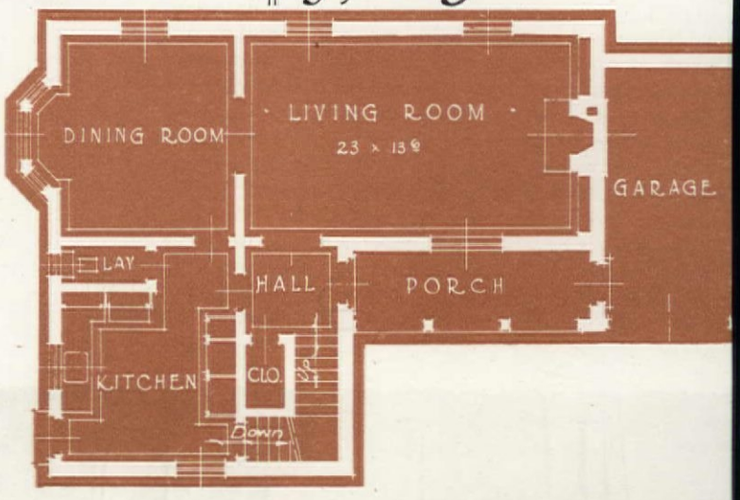
MANY of the houses shown on these pages were especially designed for us. They were altered or re-designed from plans and elevations of houses we considered fundamentally good but not good from a practical view. Bathrooms that had to be reached through bedrooms, bad "circulation" that meant extra steps, cut-up dormer windows or wall spaces that were impossible for furniture arrangement—these were the things our "eagle eyes" detected and asked to have changed. These architects responded generously to our suggestions—yet we wanted a house that would be all ours, a house designed from scratch and this is it! Our reasons for it will be found on page 95. Our architect is a bred-in-the-bone New Englander. We went to him because we felt he would best understand our wishes. He has built many small Colonial houses—and they are, most of them, mighty good ones. If you like THE AMERICAN HOME design shown here, will you turn to page 95 and let us "sell" you on the qualities of it?

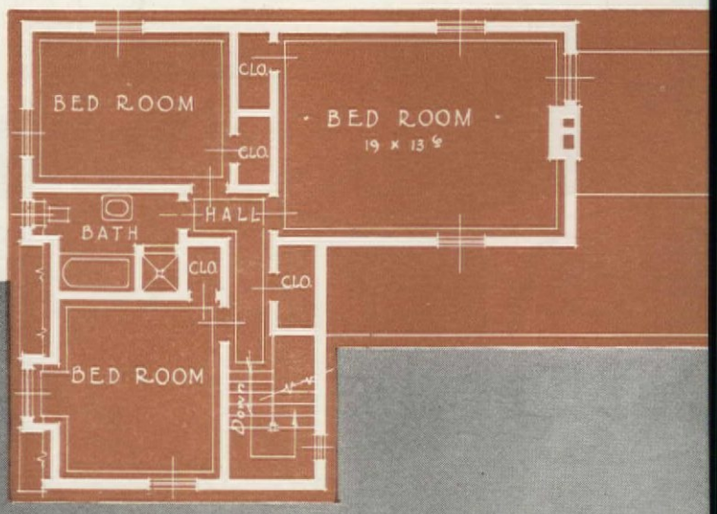




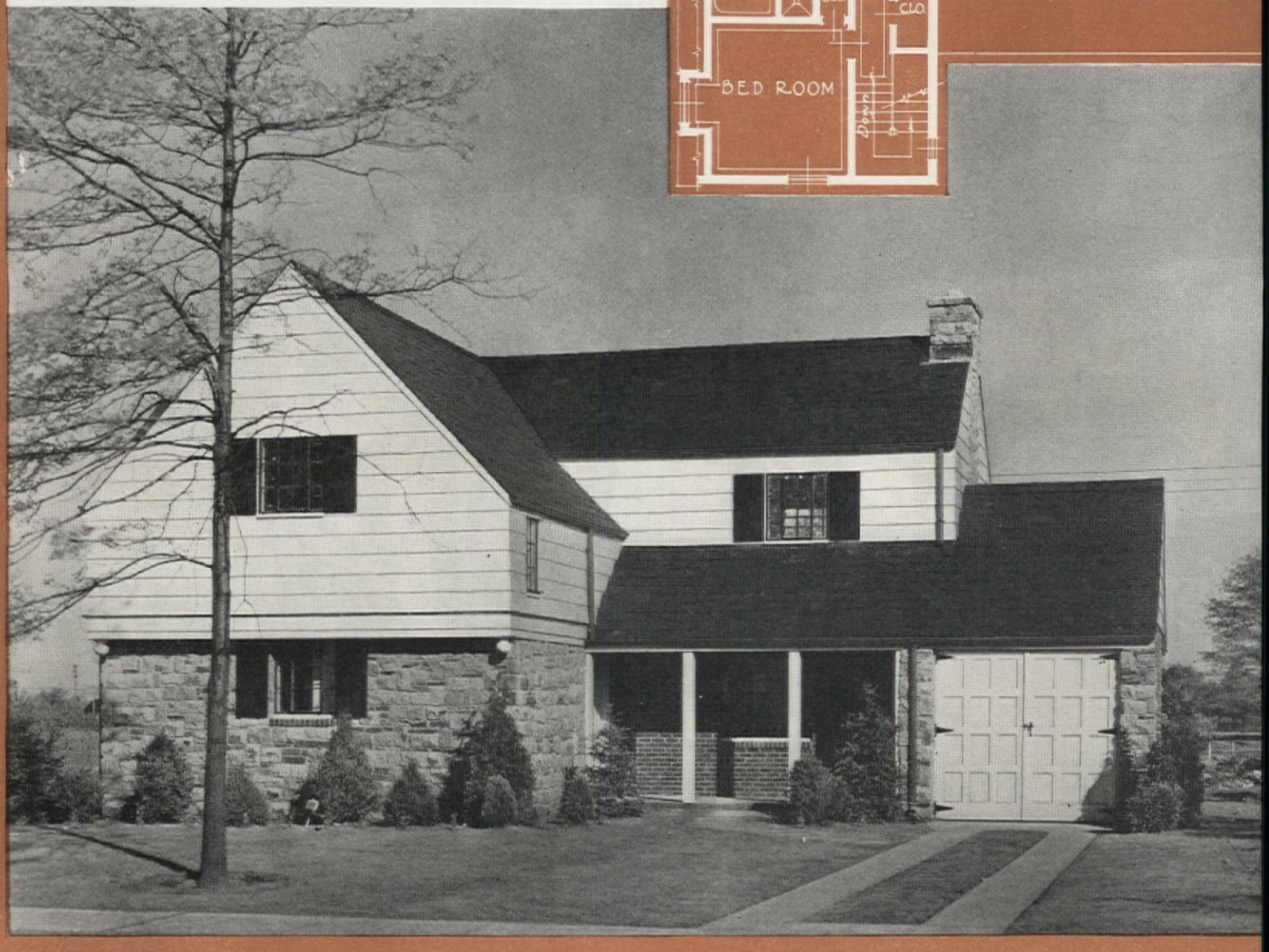
L-shaped Colonial for $7,225

Complete insulation; air conditioned; termite-proof framing; slate roof; oil burner; purchasable on 20-year FHA mortgage





From the street or from the attached garage one enters the house through the covered porch with its black slate floor. The living room is exceptionally large. The fireplace at one end, between waist-high recessed bookshelves, has a beautiful Colonial mantel, painted to match the color scheme of the room, to be chosen by the purchaser. Two windows face the private garden and another faces the street for perfect cross ventilation. Kitchen is square, well-ventilated, and carefully designed for efficient use. All three bedrooms have cross ventilation; three exposures in the large master bedroom. A very liveable custom house designed by Mott Brothers of Garden City, L. I. This is a Reynolds Specification model.



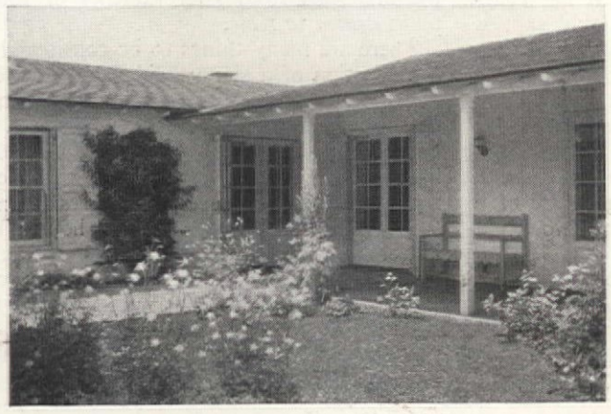
George D. Haight

Whitewashed brick in San Gabriel, Calif., for $6,300

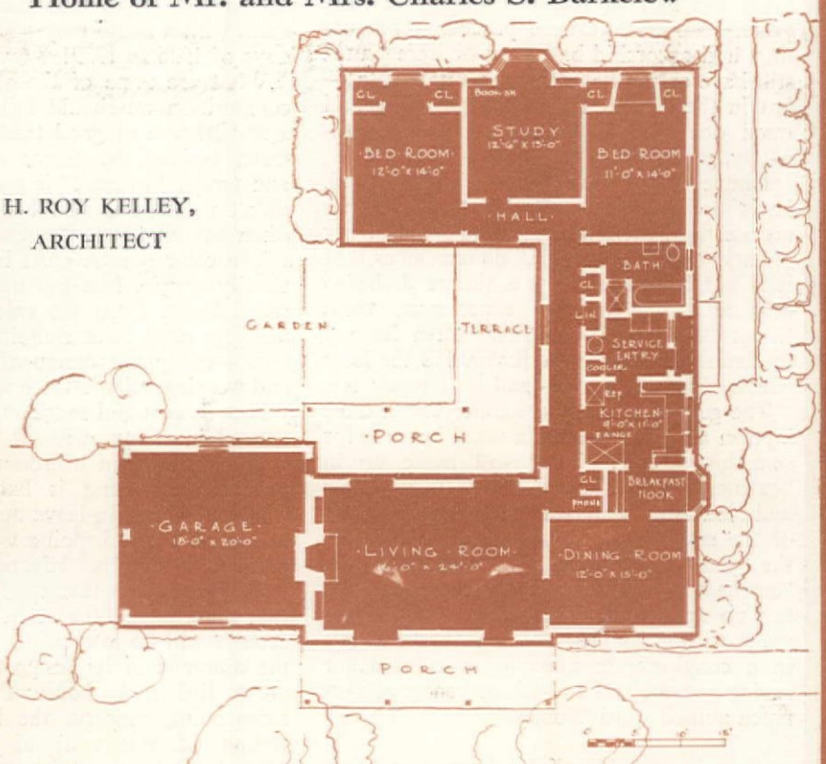
Home of Mr. and Mrs. Charles S. Barkelew

OF WHITEWASHED brick this house stretches comfortably along green lawns with a horizontal effect that seems particularly appropriate in a valley surrounded by the towering ranges of the Sierras. As a contrast to the white panel shutters, door and window trim, the louvred shutters on the French doors are painted a soft green, repeated in the soffit of the overhanging cornice. The gable roof of natural weathered shake shingles steps down at the dining room to give a pleasing break. Further emphasized by the skillful foundation planting.

H. ROY KELLEY,
ARCHITECT



This pleasant house speaks for the livability achieved when Colonial tradition enters the California scene



It is interesting to note the position of the garage and the nicely proportioned window in the wall of the garage adjoining the house, tying house and garage together. Also noteworthy is the U-shaped plan which permits a private garden, easily accessible from all parts of the house. It is comparatively unique also to find both living room and kitchen in such close coöperation with the garden for outdoor entertaining, so pleasant in a warm climate. Porches serve a two-fold purpose of affording shelter and shade as well as uniting the house to the garden. Construction features: concrete walls, piers, cellar floor in the foundation; frame construction—whitewashed brick veneer—common brick; weathered natural shakes on roof; brick floors on porches; plastering of hardwall plaster, smooth putty finishing coat; common oak hardwood flooring for interiors; white pine, three coats oil paint and wallpaper used in interior wall finishes; insulation—weatherstripping on exterior doors; heating by gas-steam radiators.

HOUSES : : Small houses—any size house!

ROBERT DENNIS MURRAY, A. I. A.

THE large house often has the benefit of an architect—and the large house rarely looks like the small house, rarely looks like Topsy—as if it "just grew." When architects are busy there is too much profitable work to be done for them to be bothered with small houses. There isn't much money in them at the best. If we really felt it our duty to interest ourselves with a few small houses for the good of the small-house cause it would be fine, providing we didn't get too irritable over it. But small house customers are notoriously querulous. They take as much time, if not more, than "big" customers, and it is hard to convince them that an architect's time, like a lawyer's, a doctor's, or any other professional man's time, must be paid for. Yet architects, unlike lawyers and doctors, seldom wax fat and rich. Is the fault ours—or yours?

Regardless of whose fault it may be, my concern and the concern of this publication is to see that this new "building boom" does not bring down upon our heads the unsightly, pathetic deluge of "jerry-built" houses which made our fair countryside so ugly in past years. Houses that were purchased because they had an orchid bathroom or were "cute" still have orchid bathrooms and are "cute"—but in the eyes of the owner only. Try and resell one of these houses today—unfortunately, you can't!

I hope what I have to say will be helpful. It is entirely from my viewpoint, as an architect. If, therefore, you find some of my remarks on the "acid side," do remember that it is not all spleen. It is a sincere desire to help and, like parents' experiences, those things "for your own good" often have a preliminary disagreeable flavor. It's the later effects that repay one—and will repay me.

The general urge, unfortunately, with most laymen about to acquire a small house is for something "cute." They will make up in "cuteness" what the house lacks in grandeur and size. And "cuteness" has been the curse of the small house in America. To be sure, the "jerry-built" house always specializes in "cuteness." It is not soundly constructed, it has no architectural design. It simply must make up for its lack of these fundamentals in a conglomerate mass of so-called labor saving gadgets and an exterior veneer of that much abused word "homey."

MAY I speak bluntly? A home is a financial investment—the greatest single investment of your whole lifetime. Intelligent, sane people do not make major investments for romantic reasons. There are fundamentals to be observed. Building or buying a home, these fundamentals are certain rules of scale, proportion, and unity. By "unity" I mean a unity of the various elements of the design or a composing of the various elements. There must be some semblance of repose. The whole thing mustn't dance all the time. A trick bay window here with quaint latticework dripping from the sides, a representation of ye-olde-well-heade protruding from the wall next to it, and an entrance adjoining this that out-quaints-the-quaint, and a few other excruciatingly cute little cuties all competing one with another should be enough to give any sane, seeing person the "heebie-jeebies." Even traveling salesmen have to come back to these restless things I have just mentioned once in a while. And how about Mrs. Traveling Salesman? She has to live there all the time. And the children? What kind of American citizens will all this make of them? What will become of their rugged individualism and any appreciation of the fitness of things in these jazzing atrocities?

THERE is no use working ourselves into a hot lather over such messes dripping with sentimental pseudo-picturesqueness. They are not "all-done-in-fun." It would be better if they were. They only "aim-to-please" or rather to sell. But you are not the "seller"—you are the buyer. And this up-and-coming generation is not going to pay for your sentiment. If you don't believe me, just talk to one of those sentimentalists who are now stuck with a house they bought in the palmy days of 1926 to 1929!

What are some of the other principles of composition we should follow in concocting a small house of good taste or at least sane taste, besides the three: scale, proportion, and unity? "Interest" is possibly the next. I didn't mention it first because "interest" is often confused with "cuteness."

The color scheme must be interesting and usually simple. Not too many colors in one small house. Even the color scheme of the planting must have simplicity and certainly unity—not just a clump of palm trees here, and weeping willows there with red, blue, and yellow flowers and magenta bougainvillea all matted in clumps without rhyme or reason. I don't think I'm overdoing it when I say proper landscaping is half the battle. It would be better to leave out the landscaping altogether than to spoil a well-designed small house with improper advances.

Another rule is that the house or composition must have "character." If it has character it will be interesting. It should express the character of its designer, the people who are to live in the house; the contour of the surrounding country, the hills, the general feeling (if you will) of its surroundings. Jagged steep mountain peaks at the back door might suggest jagged steep roof lines. A low rolling country would suggest low eave lines; the silhouette of the house would fit the country surrounding it.

By all means there should be simplicity. Don't try to crowd everything tricky you ever saw or read about into one small composition. To crowd the Ruskinian rumblings into one small sentence: There should be "honesty," "sincerity," and "decency" in de sign. Beware of fakes: fake stone walls don in frame and plaster with jagged theatrica bumps hither and yon; garages disguised a drawing rooms and solariums.

Don't be too grand with a small house. Al of these apparently caustic, somewhat Hiber nian outbursts over "jerry-building" have bee aimed mostly at exteriors. Let's go into th interior or take a slice through the hous parallel with the ground and look at wha we call the plan. And it should be a plan What is the purpose? Essentially a conven iently planned house in which to live. don't care whether it's modern or Chinese o Julius Caesar. The modern tendency is t open-up the plan. Large openings may con nect the principal rooms. The living roon may be separated from the dining room wit accordion doors or shutters. Or you may wis a cloistered plan. Rooms may be soun deadened and very private.

Don't cross your "circulation" if possible This is difficult in a small house, but try t keep the three elements: 1—Entertaining, 2— Service, 3—Living Section; separate enoug so you won't have to pass through th kitchen to get to a bedroom and avoid an other awkward maneuver. By all means stud your furniture arrangement. Study it care fully. Don't crowd the furniture. Study th "balance" of the furniture arrangement. No all the furniture should jamb against on wall. Allow for distributed placement.

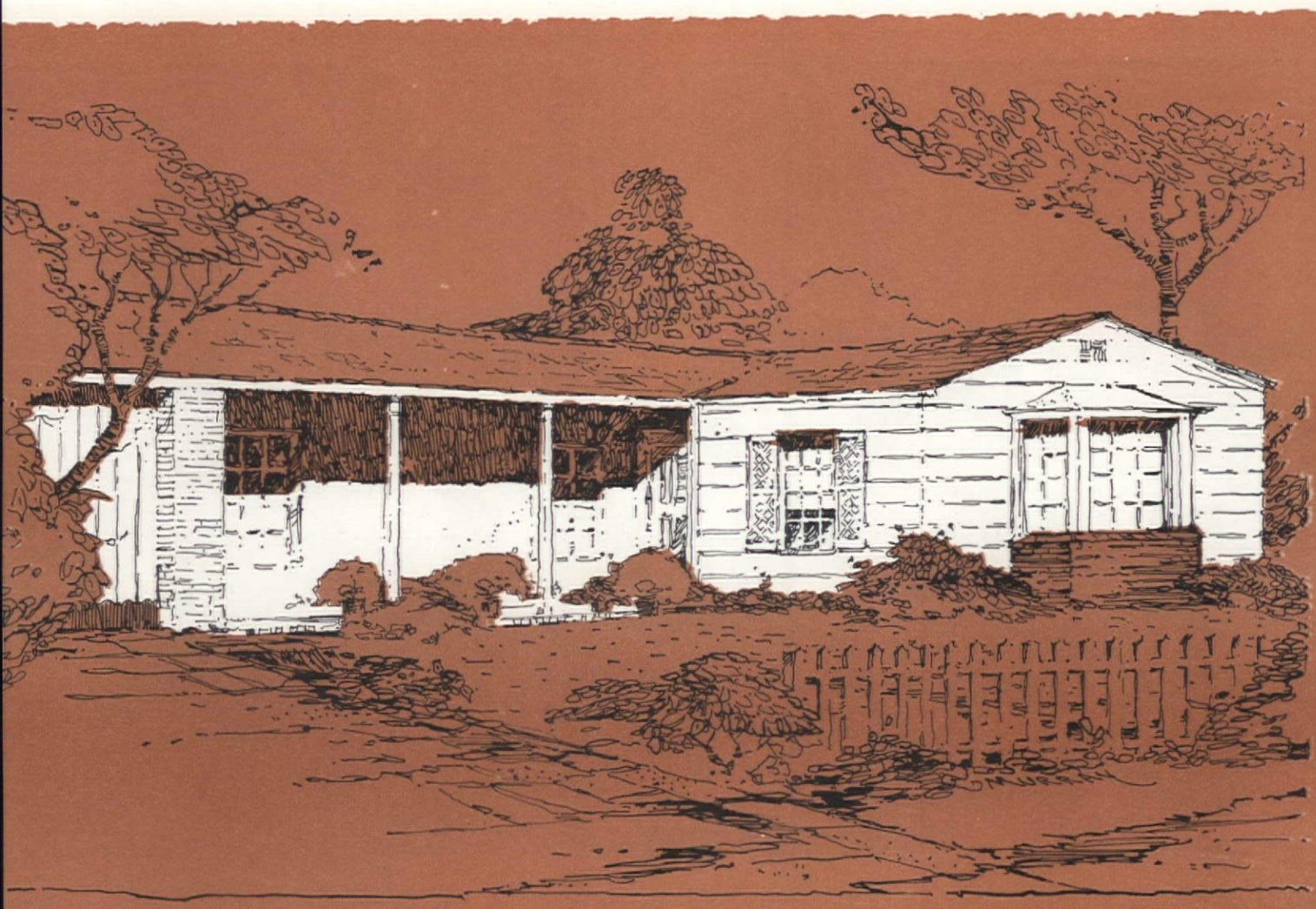
And greatest of all study "economy"— economy of space, economy of steps you wil have to take. Make every foot count.

The fenestration or window arrangemen is as important on the interior as on th exterior. Don't go from a magenta bedroo into an orange dressing room or bathroom Study your color scheme and color balance And again don't get too "quaint" or "cute. The cuter and quainter you get on the in terior, the more you are likely to hate it year from now. Even if certain enthusiast squeal or scream in ecstasy over some nov trick, don't have it.

AND how about your pocket-book? Don fool yourself on costs. You don't have t have costly extras. Figure a little high or ge someone who knows how to figure to take of the materials from your sketches or roug plans *drawn to scale*.

There are many things to be considered i the selection of a site (avoid filled ground) Tract restrictions, taxes, zoning, the futur of the neighborhood, climate, winds, etc.

Just "look before you leap." A goo house is one of life's most satisfying invest ments. You cannot perform an operation an "jerry-builders" cannot design a house. Th better the architect, the more care he'll giv a small house design. Any really fine archi tect will tell you a good small house is th hardest job in the world. The smaller th purse, the more important the investment— and so on into your own small home!

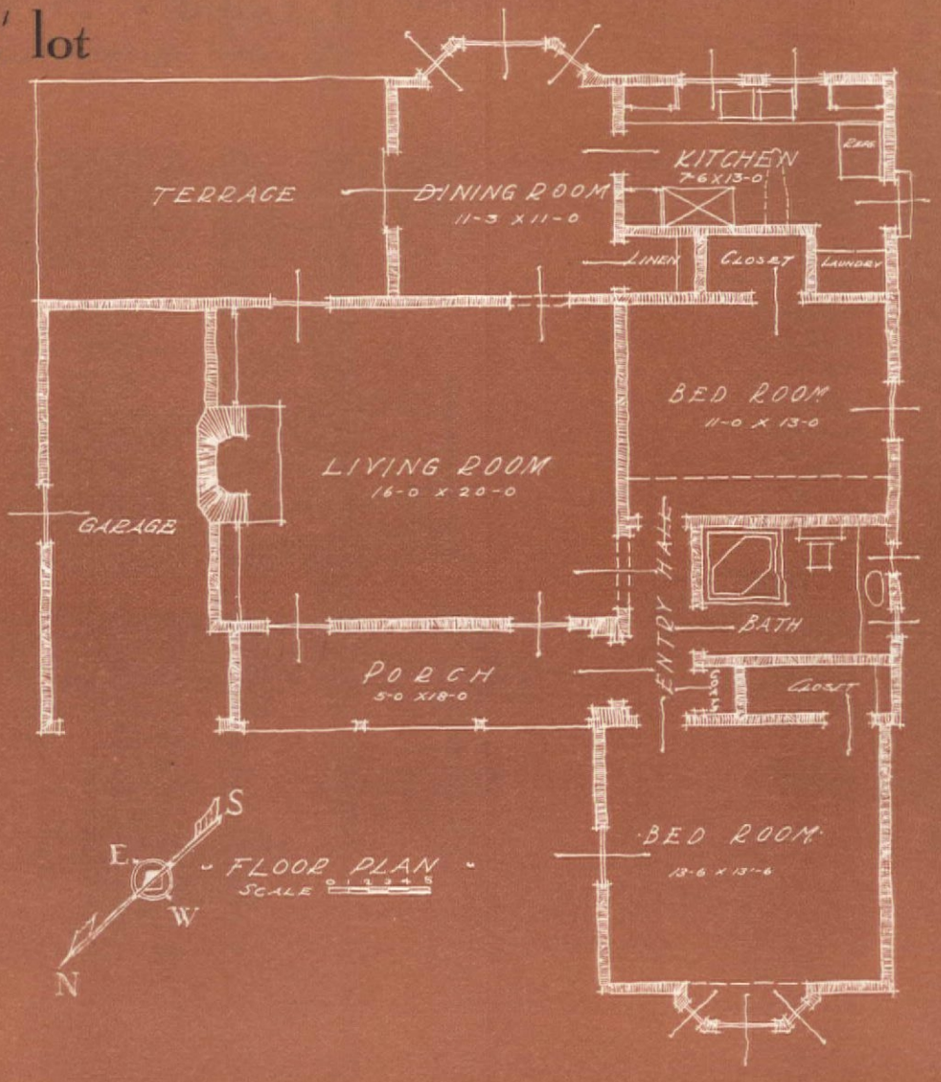


House for a 50′ x 134′ lot

HENRY CARLTON NEWTON
AND
ROBERT DENNIS MURRAY
ARCHITECTS

Construction data:

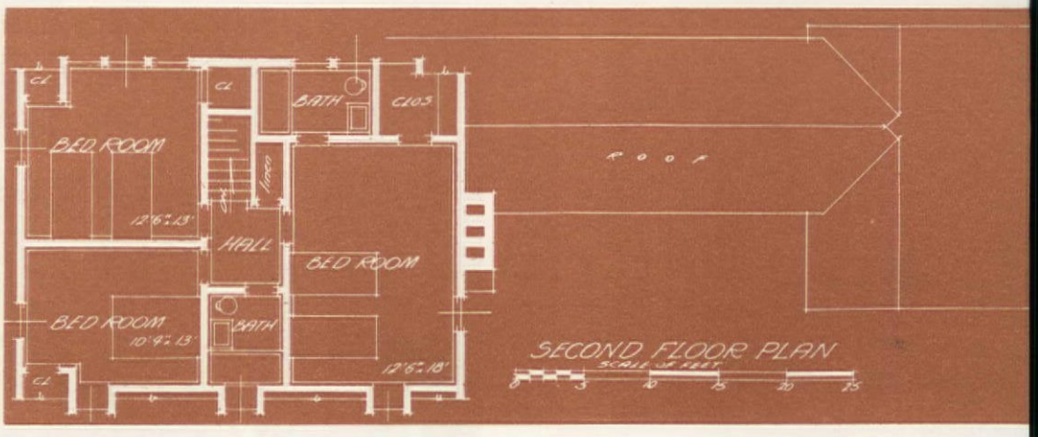
SIZE OF LOT: 50′ x 134′
FOUNDATION: Reinforced concrete
FRAME CONSTRUCTION: 2″ x 6″ studs
EXTERIOR SURFACE: siding
ROOF: Cedar shingles
DOORS AND WINDOWS: Double hung
PORCHES: Brick floor, wood ceiling, stucco walls
GLASS: Single strength "B" quality
LATH AND PLASTER: Wood lath—interior stucco
INTERIOR WOODWORK: Vertical grain Douglas Fir / Sugar Pine and Red Wood
INTERIOR FINISHES: Sugar Pine and Douglas Fir
WIRING: Rigid conduit
LIGHTING: Direct
PLUMBING: Colored fixtures
HEATING: Wall and floor units, gas
CHIMNEY: Brick—Brush coat
HARDWARE: Polished brass
SCREENS: Copper
COST: $3.60 per square foot. (Including Architects' fee)

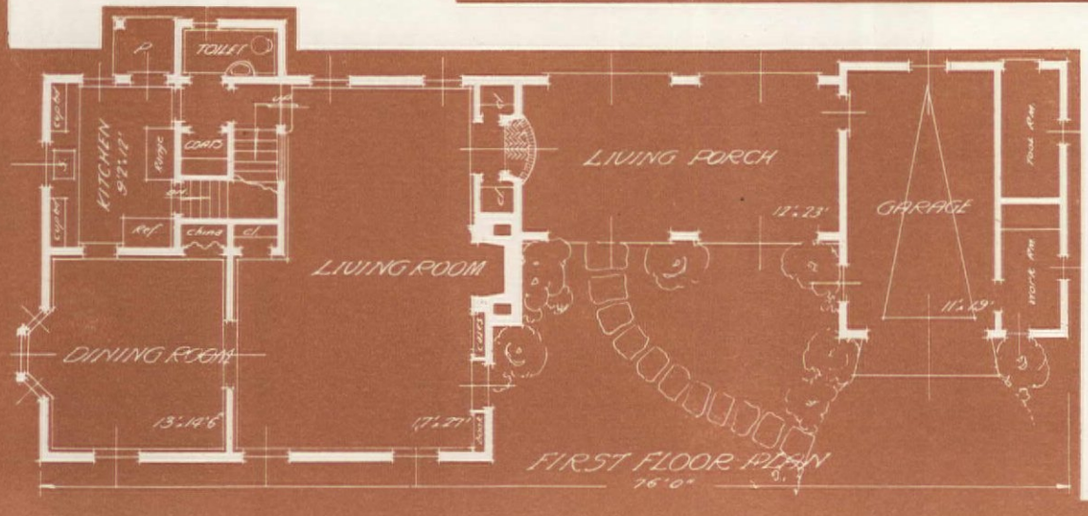


Small Colonial in Tenafly, New Jersey—$8,700

R. C. HUNTER, ARCHITECT

Mr. Hunter has designed some of the finest small houses in America and this little Colonial house bears the hallmark of Mr. Hunter's standards. Note particularly the pleasing lines and the windows that are somehow "just right." We mention the latter for this is where many an otherwise good little Colonial goes "bad." A covered entry and a first-floor lavatory are noteworthy in so small a house





Construction data:

- The complete cost of construction $8,700
- Contains 29,000 cubic feet
- Roof shingle
- Wide cedar siding
- Roof and 2nd floor ceiling Rock Wool insulation
- Poured concrete foundation
- Full basement
- American Radiator Co. boiler and radiation
- Floors oak
- Baths tiled
- Plumbing fixtures Standard Mfg. Co.

How much does air conditioning cost?

JONAS PENDLEBURY

PERHAPS most of us are familiar with the term air conditioning, but for the benefit of those not yet familiar with the meaning of the term we give the definition stated in The American Society of Heating and Ventilating Engineers Guide: "The term air conditioning in its broadest sense implies control of any or all of the physical or chemical qualities of the air. More particularly, it includes the simultaneous control of temperature, humidity, movement, and purity of the air. The term is broad enough to embrace whatever other additional factors may be found desirable for maintaining the atmosphere of occupied spaces at a condition best suited to the physiological requirements of the human body."

In other words it is the scientific evolution of the old-fashioned hot air heating system. Science has taken an old system and put new life into it. Someone once said, "Progress is the motive power of science, science seeks perpetual motion." Well, it seems to us that it has found it in air conditioning, because air conditioning depends largely upon constant air movement.

The development of air conditioning has been very rapid. It was only thirty years ago that it was first used, and then only for commercial work, such as in theatres, restaurants, etc. However, during the past ten years or so, especially during the past few years, the companies that manufacture heating equipment have put on the market many types of equipment suitable for use in residential work. New developments are constantly taking place. Each year brings more companies and more advanced equipment into the field. The manufacturers certainly have spent a good deal of time, thought, and engineering skill on their products and unquestionably have brought to us many types of equipment to perform the separate functions, various combinations of functions, or the complete function of air conditioning.

Many persons considering air conditioning naturally ask themselves or the architect or the heating contractor, "How much will it cost to install and maintain?" This is a question that can be answered only by an architect or heating contractor on the spot. The question can be answered only for a specific installation and on actual location. Otherwise, it is like asking the general price of automobiles—without saying how much car one means by "automobile." How much air conditioning do you need or want—and what are the conditions? It is a major investment and a major decision and should be attacked from the angle of how much of it you can afford—for, like cars, you can buy air conditioning in small, medium, and large sizes!

There are many factors that enter into the cost of installation and maintenance. The type of unit or units selected. The size and type of house. The amount of conditioning desired. The climate, the location, the type of building construction, the availability and cost of fuel, gas, electricity, and cooling water. Insulation is also a factor to consider. Proper insulation reduces the size and cost of the conditioning equipment. It will also reduce the fuel bills. Weatherstripping doors and windows is another factor to consider. There is conclusive evidence that the use of insulation and weatherstripping assures more economical heating with smaller equipment. This applies not only to air conditioning but to any type of heating system.

It has been asserted that the cost of one of the most modern complete winter air-conditioning systems having automatic firing and controls for a house costing $10,000 is comparable to a good two-pipe steam or hot water heating system having proper controls. In this connection it is well to remember that even the cost of a good two-pipe steam or hot water system for a house of this size will vary according to type of heating unit and location of building.

SOME of the simple types of winter conditioning are not expensive to install and maintain. Some of them may be added to an existing heating system at very small expense. In new work the conditioning may be accomplished all at once or step by step, depending upon type selected. Some of the systems are so designed that the units can be added as required, or as finances permit, provided definite plans are made for such installations at a later date.

At the present time many of the companies are emphasizing winter air conditioning and there are many types of equipment on the market made by reliable companies expressly for this purpose. Some units combine all the functions of winter and summer conditioning, year-round domestic hot water, and heat for radiators in a single compact unit. Some are so designed that a combination of units, centrally located or set adjacent to each other, provide all the functions.

In the case of winter air conditioning the cycle of many types seems to be the same. Air from all parts of the house is drawn by a blower through metal ducts into the unit and passed through filters to remove dust, soot, germs, pollen, etc. The filtered air is then heated, then humidified, and then forced through the main metal duct into smaller ducts to the various rooms.

Replaceable filters, either dry or viscous, are generally used to clean the air. Humidification is provided by an evaporative tray mounted in the path of the air stream or by the temperate air passing through a fine spray mist discharged from nozzles in the air washer. As mentioned above, there are some units which combine all the functions of both winter and summer conditions in one compact unit. This is secured by refrigerating equipment enclosed within the unit. In many cases the cooling equipment is located in a separate unit set adjacent to the conditioner. Some systems do not employ the refrigerating unit. They depend upon cold water for the cooling medium, or re-circulation of evening and morning air in the summer time.

One of the well-known heating companies places emphasis on what may be described as the dual system. The usual complete heating system is installed, hot water, steam or vapor, as one unit. Then the air conditioning can be installed in a compact separate unit to work with, yet be made independent of the heating system. The complete system, heating and conditioning, may be installed when the house is constructed or the system may be so designed that only the heating system may be first installed, with metal ducts built into the framing of the building so that the conditioning unit may be added later. The conditioning unit can be installed in a house having an existing radiator system.

The external appearance of many of the units is, indeed, very handsome and attractive. There are many designs and color schemes. They are as different from the external appearance of the old-fashioned heating boilers as the latest stream-lined automobile is from the models of twenty years ago.

The humidifier is a self-contained unit which circulates cleaned, warmed, and humidified air in any home heated with radiators. In some cases it is connected to the existing heating plant; in others, it produces the required heat for warming the air. It is reasonable in cost and requires very little maintenance. It can be used in new small homes where the cost of the larger complete air conditioner would not be justified. At the present time the unit is of standard size. The same size serves both large and small houses. Soon it will be available in several sizes, each unit adequate for the small, medium, or large house, as the case may be.

Unit systems, self-contained and remote, are available for summer cooling, or complete year-'round conditioning. The self-contained unit has the condensing unit, cooling and dehumidifying coils, fan, motor, and filter all located in one cabinet. The remote type unit contains all of the above excepting the condensing unit which is located at some remote place. Either of these units may be used for a single room or used in multiples for several rooms. The steel cabinets are very smart in appearance, being designed to harmonize with almost any type of surrounding.

COMPLETE automatic control of the conditioning system is considered essential. Proper automatic control represents fuel economy, comfort, and convenience. This applies not only to the unit but to the control of humidity and temperature. Conditioning is controlled by the thermostat which contains the element that detects any change from the desired condition, and actuates the valves or damper controller accordingly. The hygrostat regulates humidity conditions. The humidostat controls the supply of moisture delivered to the air by a humidifier or air cooler.

Air conditioning for the home has received considerable recognition during the building recovery. One of the chief reasons for this interest is, of course, the educational advertising which has been done by the manufacturers of the various air-conditioning units. Another

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COLONIAL retains first place in Eastern suburbs

RANDOLPH EVANS
ARCHITECT

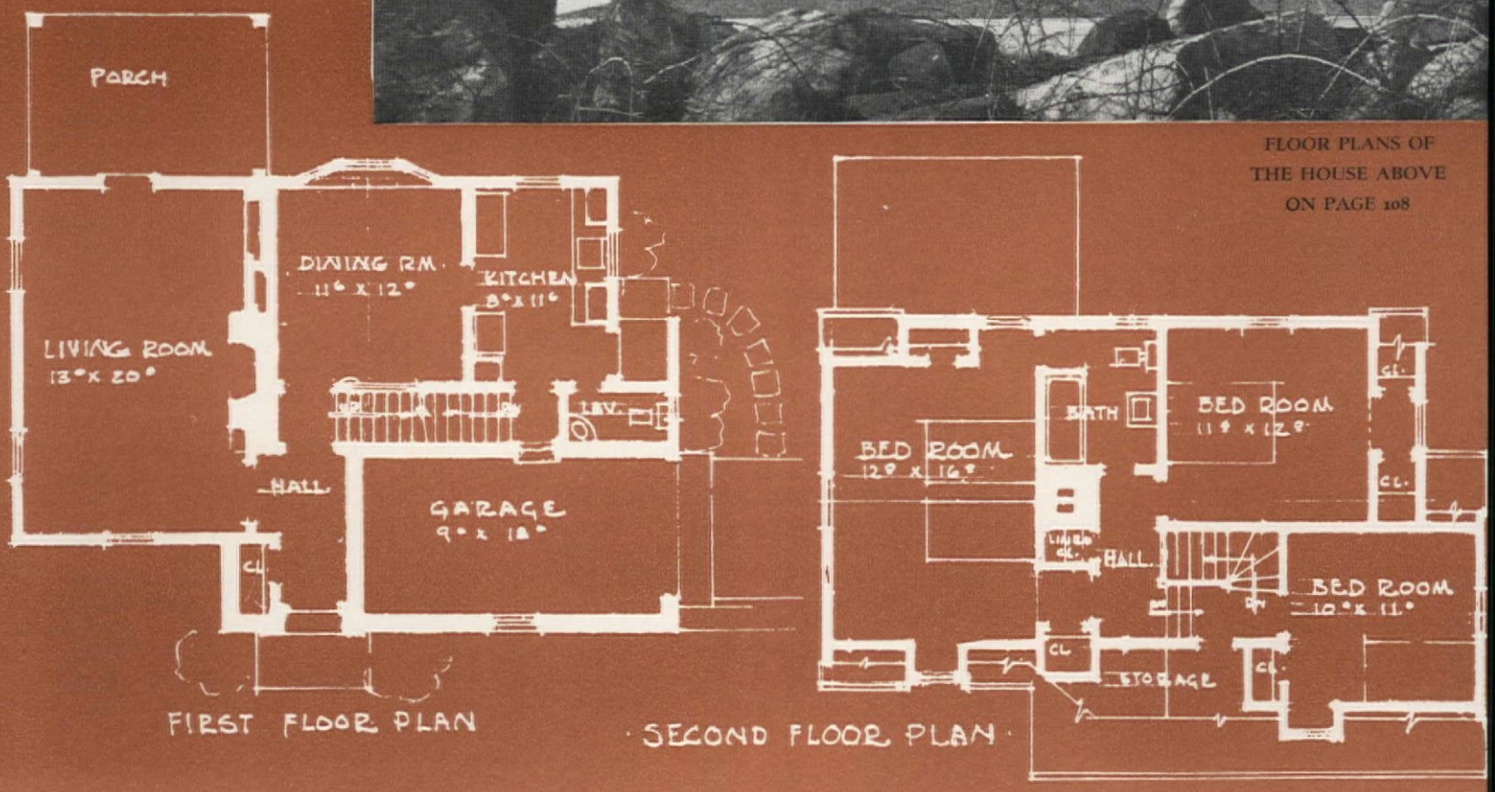
RESIDENCE of Mr. Robert Bruce Newman, above, is located at Orchard Hill, Westchester, N. Y. and cost about $7,310. Construction data:

Foundation: walls of 1:2:3 poured concrete; concrete blocks for unexcavated portions. Concrete basement and garage floors, cement finish.

Frame construction: Douglas fir, N. C. pine sheathing. Walls (except for stone facings) and roofs of 18" edge grain red cedar shingles.

[*Please turn to page 108*]

FLOOR PLANS OF THE HOUSE ABOVE ON PAGE 108



The house that Nancy built

's a pen-and-ink home, each heart with its own conception of it . . . Nancy's family arge one from every walk of life . . . They gather around a printer's ink hearth mily confabs on everything from philosophy to petting . . . BEATRICE PLUMB

y call it "Column House," this pen-d-ink home that Nancy Brown of *The t News* has built for her "family" in seventeen years, has grown from a l of housewives to a hundred thou-eaders, drawn from all walks of life. and down the Column House steps, the pass in endless procession: tinker, soldier, sailor, rich man, poor man, man, thief. Yes, there was a thief! He olen food for his starving babies—was paroled after ten months for good or. For the steps of Column House are ndeed; there is room for all. One of the , true descendant of Mayflower stock, or of several college degrees and a vocabulary, rubs elbows with an il-little alien whose "Engleesh spik" has words than his flashing smile has teeth. octor's wife, the minister's daughter, cial worker, teacher, musician, law , artist, journalist, wayfarer, and drift-eamer all surge through the columned to join the fireside circle where sit, s, a weary factory hand, a hash-slinger, irl, taxi driver . . . and, of a surety, rdened little housewife who has come Nancy-made budget, the magician's hat ch she confidently hopes to put her d's wages of seventeen dollars a week ke out the rent, coal, food, and clothes family of six—and another coming!

incredibly fine Family, a powerful its influence for good everywhere ac-dged. A House whose door is always o the lost and lonely, the weary, and aden. A House that has become to d thousands a symbol of all that home mily mean to the heart of man. For t few years of its life, Column House's im was to solve the household prob-f busy wives and mothers. And, al-the ensuing years have widened its mmeasurably so that now it reaches oad cultural fields and does welfare cognized by every social service agency oit, it remains essentially a home col-with all its varied activities home-d, its annual mammoth mass meeting n Father's Day, and its best efforts preserving and protecting the home, and glorifying the home maker.

one can estimate the vast number of g homes Nancy has saved during the ion years. Sensitive yet sensible, she othed this one, braced that one, re-a bushel of "last straws"—the inevitable things that finally make the burden able. Once, that last straw was the a decent dress for daughter to wear duation; another time, the futile feel-ave a fellow when his littlest kid asked he could have a penny when the banks up again; once, it was a line of ragged Small things, but Nancy knew their weight, and in no time at all, that aw was lifted.

mn House is built of letters—and love. ago the column grew to a page and, on exciting occasions when all the Family want to talk at once, it occupies several pages. But Column House is no more like the usual agony and love-lorn columns than light seen through a prism is like that seen through a pane of glass.

But Column House has a heart as well as a head. Primarily it is not a literary page. As I said before, it is built of letters—and love. Sacks on sacks of mail, throbbing with struggling, singing, sobbing, soaring life! Romance in a rose-tinted envelope; bitter disillusionment in a gray one; a cute stork card announcing the birth of a Column House baby; a black-edged letter telling that poor old Dad —driven out of his mind by losses and strapped to a public ward bed—has died.

In a recent discussion on home-work, the Detroit school practically moved into Column House, staying for weeks! "Betty Buzz-a-Bit," a Column mother, wrote to Nancy complaining of the terrific amount of home-work under which her delicate, conscientious little daughter was staggering. That started it. Nancy, a graduate of Mt. Holyoke, and a teacher in high schools before she became a newspaper woman, had views. So did many Columnites who had taught school before they married. So did the Board of Education, who sent committees to Nancy's office to state their side. There followed educational conferences, with Columnites' letters and Nancy's replies discussed pro and con, to be filed away eventually in scholastic archives—an exciting skirmish, with everybody better friends because of the thrashing out of a problem.

Although such discussions wax hot, they never become vindictive. Years ago a beloved Columnite, "Connecticut Yankee," gave the Column a slogan that caught the fancy of the Family and stuck like a burr—"Fight Nice!" The phrase somehow suggested a tumble of playful puppies or children having an awfully good time but needing to be warned against nipping an ear in earnest. She had lots of friends, grinned "Connecticut Yankee," because, in spite of her many failings, she had learned to "fight nice."

The Family had always been marked by its tolerance and good sportsmanship, a reflection of Nancy's own, but now it had a perky little phrase to epitomize it, and "Fight Nice" is now as much a part of Column House as its annual collection of Family letters published in book form.

A frantic S.O.S. from a young bride who wants a budget to keep the matrimonial bark off the rocks of her inexperience. Her husband gives her two hundred dollars a month, and it simply won't stretch to buy an egg beater! Help please!

A CHIRPY little note from a gallant city-bred youngster keeping house on her husband's pension of twenty dollars a month, living in a shack in the country, growing a garden. She tells with little-girl pride of the five hundred pints of provisions stacked on her shelves to keep the winter wolf from her door. All put up by her own hands—more accustomed, one suspects, to the keys of a piano than pots and pans; for she was doing concert work in New York and Boston when the overwhelming crash came.

Yes, tragedy, pathos, fear, despair are in those letters, but also the pioneer spirit, undismayed, unbeatable. And here and there the blessed relief of one like "Guillaume," who dares to guy the depression:

"We ate the carpet in the hall. We ate the pictures off the wall. Literally! When I visit friends I find myself scanning their furniture with gluttonous gaze. My expert eye is assessing them as vitamin values . . . At last we are down to knickknacks. A pair of book ends, some ash trays . . . Merry Christmas, Nancy!" Out of the mail bags tumble more letters. Here's one from an excited foreigner who has been sick with fear lest his tiny Spanish child-wife would die in the maternity ward. Now, in ecstatic broken English he pencils his joyous news. He is "a Daddy twice!" Twin baby sons! And little Del Rose smiling at him —*alive!* After those no-heart doctors had banished him from her bedside when all he

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WE PUBLISH the story of Nancy and her house for two reasons. First, because we sincerely hope that every new little home being planned or built will, in its own small way, contribute to family happiness, as Nancy and her Column House have contributed to American homes. Secondly, because we believe the press, and not the air or other media of reaching people, is the greatest contributor to that which is genuinely helpful and inspirational to finer, better living in America. We salute a contemporary who has added to that contribution. The present-day craze for cha-cha amusement is apt to make us forget at times that amusement is not the aim of all creation. A sane mental diet and a healthful physical diet must include fun, but is not to be confused with amusement. We are apt to forget that giving is still the surest road to getting. We are apt to think of homes as shelter and mechanical devices rather than the pivot of all happiness and culture.

One of Nancy's family has said, "nobody ever needs to lose a home. It may be that he's about to lose a house, but that is something entirely different. A home is that indefinable something which surrounds a group of people who live together in mutual love, respect, and consideration; and the particular kind of an edifice that covers it is unimportant."

And so it is unimportant—except that real family life in apartments is a rare and fragile thing. Let us build homes—not houses. And let us build homes that do not harness us down financially until there is nothing of our souls left for happiness, nothing left of our energy for our family and our neighbors.

—THE EDITOR

ROANENSIS comes down the mountain

In the Great Smokies where every peak is more than a mile high. Below, Sedum rhodiola roanensis, lost for almost a century and rediscovered on Roan Mountain by G. Latta Clement

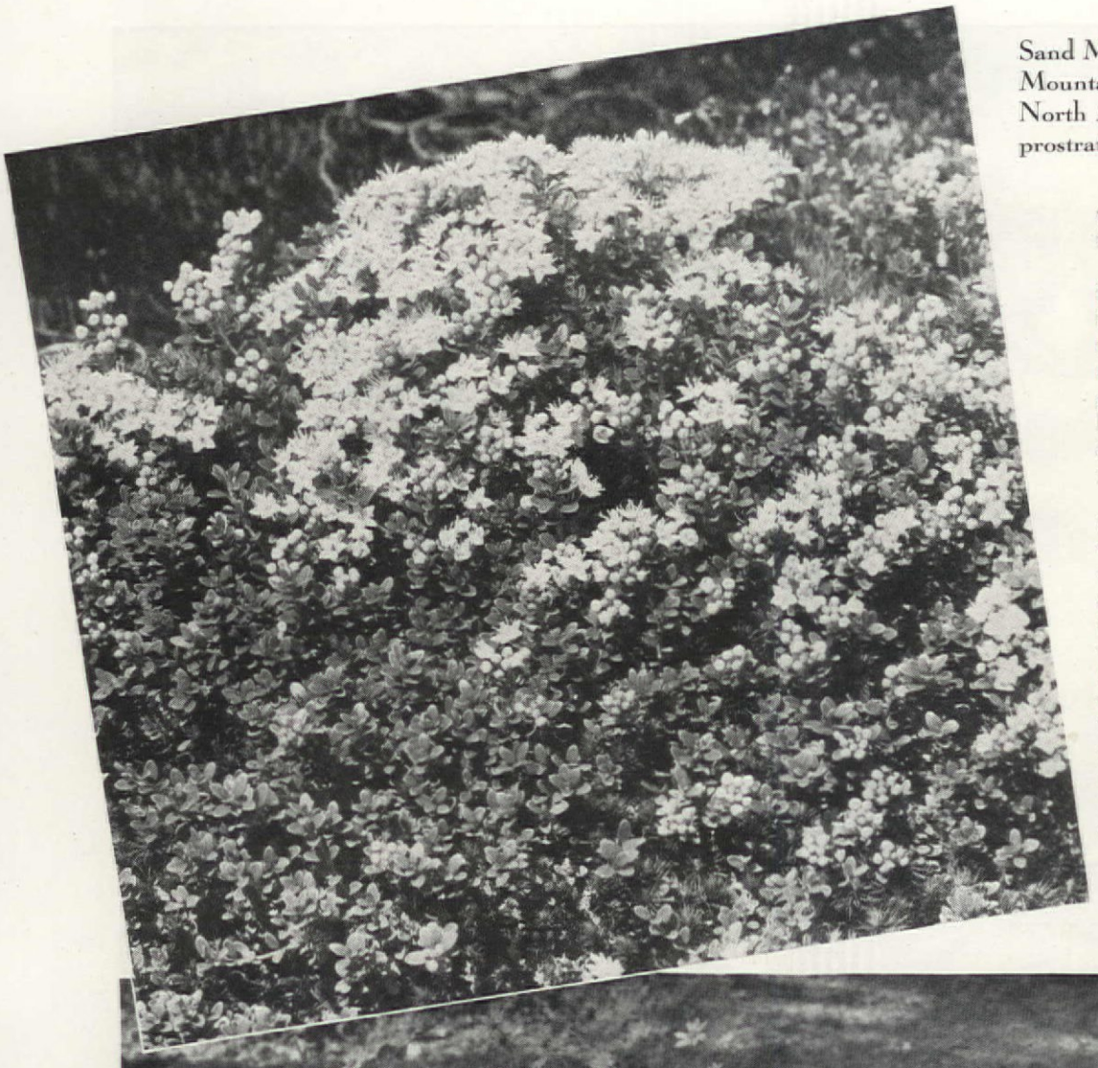
ROSE BATTERH

NOLICHUCKY, Oconalufty, Nanta Ekaneetlee, as names are fascin but they carry an additional charm immensity of mountains, the depth of gorges where a hundred rare and be species of plant life are in hiding. awaited the drama of discovery while nosed its painful way along a disused ber road in the Nolichucky section of Carolina where no car had ever been and, certainly, for its own sake never be as its owner soon found out.

So enthused were the driver and h with the surety of finding a rare flo add to their collection that they d consider the danger of their quest. closed in about them; rotting logs sl from beneath their wheels; and the no space at all in which they coul around. But the rare flowers were roots dug up and wrapped in sheets o torn from huge logs, and only then explorers, Latta Clement and his wif to the disconcerting realization t reach the big road they had to bac two miles, back over fallen timbe jagged stones, along a precarious p

G. Housekeeper

The Trillium which includes the Wake Robin is indeed a large genus in the Lily family; beautiful woodland plants enjoying shade, moisture, and humus. Any of the fourteen different species at Nik Nar, Biltmore, are easily adaptable to cultivation. Above is the rare Trillium discolor!



Sand Myrtle or Sand Heath growing on Roan Mountain, found on the sandy plains of the North Atlantic States; Leiophyllum dendrium prostratum, easy for dry and sandy wastes

walled against a mountain stream, and th
the fearful walls of rhododendron "hells."

"Perhaps it isn't worth it," said Mr. C
in an apologetic tone, but the glint of adv
in his eyes betrayed him. Discovering new
rediscovering ones long lost to everything b
records is an adventure and must surely af
greater thrill than even the evolvement of
Dahlia in the safety of one's back yard,
development of a plant incongruity th
the gentle art of grafting.

"We were the third car that ever c
through Indian Gap," he went on, "and
wards I had to buy a new machine. The o
was shaken into a pile of junk." The expe
a new car, because he had to find what wa
in plants on the Great Smokies where ac
virgin forest still lay unexplored! Even the
kee Indians, who for hundreds of years
walked "duck fashion" from North Carolin
Tennessee, do not realize all there is to know
these enormous mountains, but Latta Clen
determined to find out for himself.

Yet, worth while or not, during six years
dreds of native plants have found a new h

[*Please turn to pa*

Coreopsis pubescens; a dwarf gold co
part of the taller growing garden Co

Meet the teacher!

CLARA B. DEAN

THIS month of September your young-
r is expected to shift easily from sunsuit
ickers, from long days of free play to
ngly longer days of supervised work.
multiple adjustments are difficult, the
ers are uncomfortable, and the work
hard at first, but you dress the young
nt and send him to school without too
regret. It is good to share with the
r the responsibility for his growth.
s this sharing with the teacher that is
tant. You send the child to school, the
r sends him home, and neither of you
what the other will teach him! The
ed, malleable individual, your child,
nmered into one pattern at home and
nother at school. You and the teacher,
g responsibility, do not share your
your aims.

may belong to the Parent-Teachers'
ation. No doubt you work for a new
library, for new equipment on the
round. You know the school principal.
go to school exhibits, festivals, and
You are concerned about report cards
ou supervise homework. You may go
y to visit a class or two. But none of
as much to do with the fact that you
he teacher are two individuals who
sponsible for one child. If you two are
ng together the child has security, if
re working at cross purposes he has
no feeling of stability.

teacher is very human behind her
om face. She teaches primarily what
lieves. She finds it hard, as you do,
actice for the child what she must
to him. She knows it will be more diffi-
put into practice those things that you
aught, even if she understands surely
they are. It is necessary though, no
how hard, that you work together,
as one. For the good of the child the
needs to know what ideals you have
r him, what methods you use with him,
habits you have developed in him.
ve been grateful, as a teacher, that I
een able to work with mothers in un-
ng knots that lack of acquaintance had tied for us. And I have been even more grateful when the threads of our joint teaching have been kept straight through friendliness.

There was Lucille. For a year I struggled to break her of the habit of coming for praise of every small accomplishment or idea. Even on the playground she left the other children to cling to the teacher to ask for praise of her snowman or flower garden. It was an over-development of a common need of attention. Other children, noticing it and resenting it, punished Lucille, told her she was a baby. When the mother came to school and heard the teacher refuse to read the first line of Lucille's poem before the entire verse was finished, she decided that the child was being neglected, and took a contrary stand.

Now that misunderstanding had come about, it was hard for the mother to go to the teacher, hard for the teacher to understand a mother who would not encourage her child in self-reliance. At last came a school picnic, a time of sharing sandwiches and ideas. Lucille's mother and I sat under a white oak tree and got acquainted. I was so sincere in my interest in Lucille that the child's mother lost her distrust of me. Perhaps Lucille had had too much attention at home, her mother acknowledged. The child was so bright and such a joy to her father, and she was such a little thing to be made to rely on herself. They had kept her a baby as long as they possibly could.

With new sympathy for Lucille I could be more patient with her. With new understanding of Lucille's unhappiness with other children because of her prolonged babyhood, her mother was anxious to work with me to help the child to become self-reliant.

Sometimes it is the mother who must tell the teacher that her training is upsetting home discipline. For several years Tom's mother had been trying to teach him to modulate a voice that was unbearably raucous in a twenty-by-thirty living room. At a school program in the auditorium Tom was complimented because his voice carried so well. The boy could not understand why he should be praised for speaking out at school and censured afterward for the same thing at home.

There was, too, the "perfect little gentleman" whose mother had taught him not to fight. On the playgrounds the children called him a coward. I, knowing nothing of his mother's training, told the boy to defend himself. Was mother right? Mother is always right. But so is the teacher! Fortunately the mother heard about her son's new habit of fighting and came to me to work out a plan so that we two who represented authority to the boy were able to agree in our teaching.

So far I have talked about the danger of working at cross purposes. There is a greater danger when the mother and teacher are laying too great stress on the same thing.

NORMAN was a good child, attentive but not brilliant in school. He was interested in his work and apparently able to learn well enough the things I tried to teach him. But the harder I worked with him, the less he could tell me of what he had learned. It did not seem to be timidity, because he could talk intelligently of other things. Desperate at last, I asked for a conference with his mother who had gone to the principal about Norman's low grades.

Together we questioned ourselves. How had we failed Norman? How could we work together for him? We found, after an hour's acquaintance, that we had failed the boy by being overly ambitious for him. Norman was tense with our urgency, afraid that he could not do what we expected of him. We decided to give him only the small encouragement he needed, and to push him not at all. At the end of the next month he told me, "I'm not afraid of exams like I used to be," and passed for the first time in his school career.

And most unhappy of all was Bruce, a young Scot with a Scotch stubbornness. His mother brought him to me because she was sorely distressed about him. I found that his mother, his father, and his aunt—all adoring the boy, directed his every word and movement. Thwarted in other voluntary expression, needing to think and move on his own will, Bruce had learned to wait for adult

[*Please turn to page 107*]

Combine old and new for livable rooms

— don't be a slave to "strictly period"

Bedroom that is modern, Swedish, and Swiss! Parchment walls, bed modern and very wide in parchment color, mouldings picked out in pinky brown and blue. Dressing table modern and in parchment color. Chairs in beige, blue, brown, and gray

Bold leaf-and-stem fabric in three tones of green. Dado, dark bottle green. Chocolate brown carpet. Honey colored fruitwood furniture

EUGENE CLUTE

JUST why people ever permitted formulas for the decoratio furnishing of their homes to be forced upon them is diffic understand, especially when one sees such charming roo those which are shown in the accompanying photographs. rooms combine decorative materials, design motifs, and fu ings from such varied sources as old Swedish, Danish, and interiors with wallpapers and furniture of modern style d They cannot be labeled "Swedish Peasant Style," "Modern S or anything else. Though the house is of Early American tectural character, there is very little of that style in these r But the furnishings harmonize with the house all the mor lightfully because they introduce variety without clashing.

Clearly, this foot-loose manner of decorating and furni presents many hazards. It is not the kind of thing to appe timid, academic souls. That is why, probably, the authoriti

Photographs by Monroe Carrington

ation and the decorators of the last ation avoided it so assiduously. They afer harping upon purity of style and ulness to the period, while they dreaded ronisms quite as much as the devil was popularly supposed to dread hot pitch. there has been a gradual loosening of restrictions during the core of years, and for st decade or more the ce of mingling fur- gs of different periods een growing in favor.

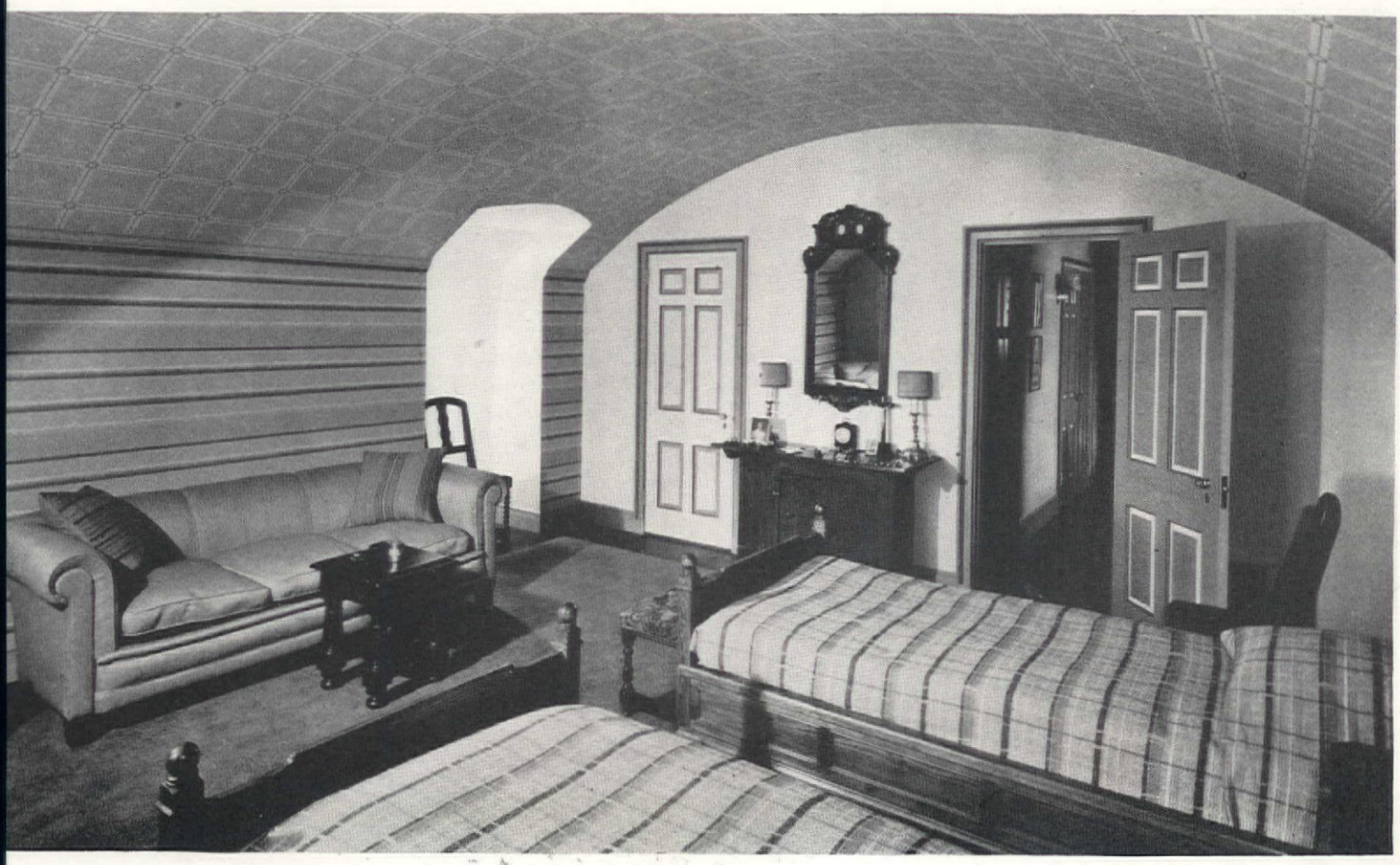
Another view of the bedroom on opposite page. The corner fireplace is a type often seen in Sweden and Norway. Arched ceiling covered with modern Swedish wallpaper in low tones of parchment, soft red, and violet

Sturdy furniture and vigorous coloring make this room (below) unmistakably a man's room. Beds of Swedish pine, a Danish oak sofa and table, and old Swiss hand-painted furniture. Stripes of green-gray and an olive toned gray. Ceiling is Swedish wallpaper of twelve-inch squares and stars

Quite recently, a further advance has been made through the combination of historic period furnishings with those of purely modern design and through the use of simple modern wall treatments as backgrounds for old furniture or combinations of historic and modern furnishings. Now, combining the old and the new is one of the smartest decorative trends.

The rooms shown here are outstanding examples of this new manner. They are in a house that might well be a

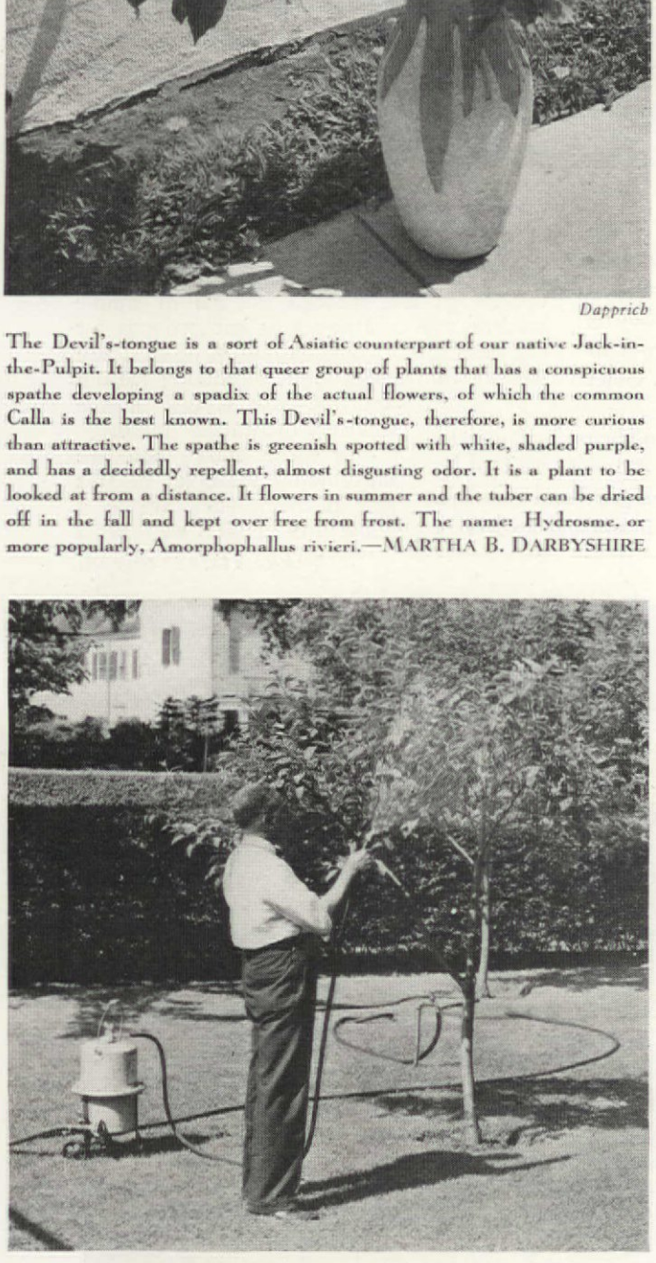
[*Please turn to page 80*]



Early Frosts: POISON IVY: Feed the Land

Dappricb

The Devil's-tongue is a sort of Asiatic counterpart of our native Jack-in-the-Pulpit. It belongs to that queer group of plants that has a conspicuous spathe developing a spadix of the actual flowers, of which the common Calla is the best known. This Devil's-tongue, therefore, is more curious than attractive. The spathe is greenish spotted with white, shaded purple, and has a decidedly repellent, almost disgusting odor. It is a plant to be looked at from a distance. It flowers in summer and the tuber can be dried off in the fall and kept over free from frost. The name: Hydrosme, or more popularly, Amorphophallus rivieri.—MARTHA B. DARBYSHIRE



Here's a spray pump that operates on the city water pressure without manual labor. There is a rubber contraption that yields under the water pressure and so forces out the spray material. (Hydro-Air Spray)

AND, now, the reawakening! It always happens in September, no matter what kind of summer it has been—too wet, too cold, too hot, too dry, there is always some one factor that the gardener has had too much of in some spot or another—the readjustment comes now. The sun's warmth in the earth actually asserts itself as the air tends to get cooler and the whole of the living plant world awakens to a new life. September is, in fact, the beginning of the garden's "New Year." This is especially true down South along the Gulf Coast where the moist breezes from the ocean carry in new vigor. Hot and dry it may be in the early part of the month—north or south; but cool days gain potency as the month ages. The wide awake gardener seizes the opportunity. He will sow seeds in the warm gracious earth; he will plant cuttings equally; he will set out the earliest bulbs, particularly the Daffodils which begin to grow again almost as soon as they have ripened for the current season. Nature reasserts her activity and, as the gardener well realizes, she attempts to cover the earth with verdure. Weeds grow apace and must be controlled. The last stands of disease and insect pests can be attacked vigorously and effectively now. In the greenhouse or in the open garden the new era is launched as we count the triumphs of the current season; forgetting the disappointments, making vows to avoid a repetition of omissions and errors, and turning our thoughts and plans definitely to bigger garden triumphs in 1937.

the weight of drought

It is a good time now before we step into the quietude of fall and winter to look back on the season that has just passed and see what we can really learn about the troubles we may have had. It is all very well to talk about "average" conditions, but that is just the one thing that nobody ever experiences and especially is the gardener brought to that realization. During the last few years, unprecedented droughts have been pretty generally experienced all over the country with occasional very wet spots to upset any positive generalization. It is just one of those things that add to the perplexity of garden conversations. The accumulated effects of these droughts and cold winters are being felt but the cause is likely to be entirely unsuspected. Oh certainly, there is such a thing as unsuitable soil, but do not assume too readily that the soil is the basis of the trouble and that salvation can be had through soil treatment. Before blaming the soil and rushing to the chemists' bottles to remedy the condition, think over some other possibilities: sun and water perhaps.

the salutary sunlig

There is not any green growing that can endure without benefice shine. But there are differences in Some plants like semi-shade with sequent partial moisture-laden phere; some revel in absolute e to the full glory of the sunlight; the way, the plants themselves wi give the index of their likes. Thic culent, fleshy leaves or hard, line foliage, suggest the fullest sunshine hairy, or woolly leaves indicate m moisture—perhaps that means shade. Dark green, leathery leav ally like shade. The practical hin all this is: Put shade lovers in th and sun lovers in the sun.

Your garden troubles may e from the trees you love so we that, not entirely, or even chiefly the gracious shade, but by the tion of moisture by the roots th meate the entire garden area. Son are particularly voracious in this Poplars, Soft and the Norway particularly, are moisture-robber often the answer to "Why doesn and such a thing grow in my ga can be instantaneously determine place can be given just one loo Tree roots, banks, buildings, dr essential moisture. The remedy cases? A mulch to conserve the m —leaf-mold, rotted manure, firs peat moss on the surface, and th gation will help very definitely.

feeding and favo

Now, better than any time in th you can determine whether your is capable of supporting the grow have demanded from it. Plants live by water alone, they must h substantial food elements availab in abundance. As a matter of fact in itself may even wash out muc ble plant foods where the l cropped; that is, where the plants out and removed and the demand for more and more productio greater the need, therefore, in such tions for constant upbuilding of trient elements in the soil. Whe are preparing to set out new sh trees or to make a new lawn, or to new bulbs, or anything whatever, be just too simply trustful th gracious earth will provide. Do yo in giving a helping hand. In all rations for planting, feed ade using a balanced prepared plan and if possible in conjunction wit

DROUGHT: *Sunshine and Shade*: CANNING

humus or stable manure to hold ainst the time when the roots de- sustenance. You cannot make much mistake in feeding the earth. Feed nsistently rather than feeding the dual plant.

he pestiferous poison ivy

munity to Poison-ivy poisoning is ematical. We do know, on the other that some individuals are highly ive and it is possible that there thers quite exempt. This immunity be conditional. It is possible to be ive at one time but not at another ding to various factors that may be ved. However, the Poison-ivy plant h us and it is generally a menace. best remedy for Poison-ivy poison- s the destruction of the offending which is a very widely spread weed as Professor Van Eseltine at the York Station remarks, ". . . is the of more human pain and discom- han any other plant." Eradication really difficult and should be con- ly undertaken around our homes ally where there are small children. lant is easily identified by its three s and white berries. In the fall the e adorns our hedgerows and fences ree trunks with a beautiful yellow e. Note the combination—three s; white berries.

re are other plants with tri-partite but the berries are colored. The most commonly confused with it countryside is our native Virginia er and it is just about as common he same area. That plant has five s and blackish berries.

re are two means of eradication— ing out, and destruction with chem- If you are immune, grubbing out and is the quickest and easiest d. For the other method: three s of common salt to a gallon of water sprayed on the leaves when rown (month of June) has been perhaps to be the most satisfactory of destruction. That spraying will ne actual crop of foliage. If the put out new shoots later on, give er application of the spray.

here's a use for the oil from the case of the automobile. Take the l and thin it down with kerosene it is thin enough for the spray That, also, will kill the leaf by g the pores. Any spraying of oil t must, of necessity, be done with nination so that other desirable and shrubs in the neighborhood ot sacrificed too greatly.

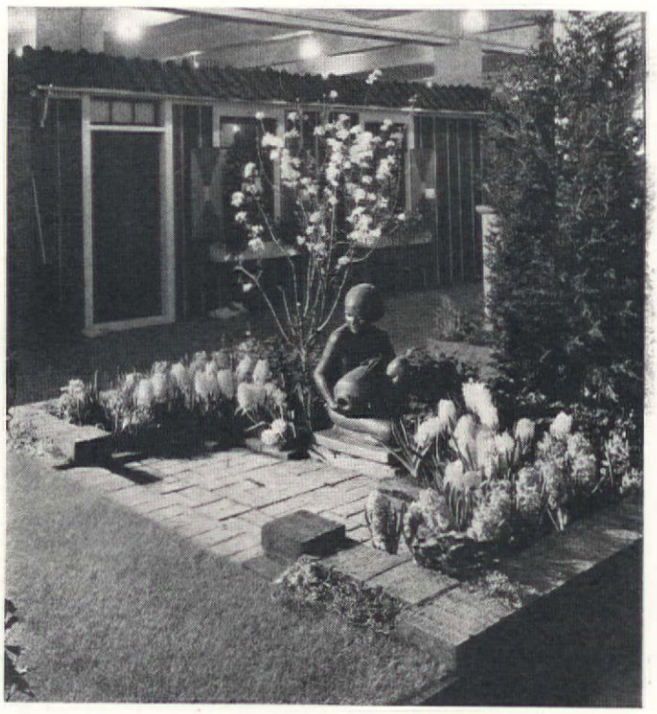
ou are faced with a case of actual ing you will be interested in read- article in THE AMERICAN HOME for April, 1935, page 404. Washing the hands after contact with the plant with a strong kitchen or laundry soap will usually prevent severe poisoning; and other popular remedies more or less effective, as the case may be, are permanganate of potash, sulphate of iron, washing soda, Epsom salts, in solution. But, the best control, after all, is the destruction of the plants.

canning the surplus

Don't waste all the late crops that cannot be immediately used but carry some into storage for winter. The matter of canning by the cold pack process will fill the shelves with a supply of available vegetables against the long winter days. But, naturally, storage of many vegetables can be accomplished in the cellar or outbuildings—in banks or pits. Pumpkin and winter squash require dry, fairly warm storage and may be kept in unused rooms of the house or even in the attic. Cellar storage where the air is clean, cool, well ventilated, will take care of all the root, tuber, and bulb crops, including such leafy things as cabbage and celery. So, make the arrangements now; for in like manner can be stored in due time the flower roots and bulbs (Dahlias, Cannas, Gladiolus, etc.) that are otherwise tender to frost. The "deep pit," a hole with a roof over it, will offer safe winter harbor to many tender plants—some Azaleas, Geraniums, Hydrangeas, Gardenias, and suchlike—which will not winter through in full exposure but with little protection in a live air pit, six to eight feet deep, lightly covered, will go through the winter in a condition of suspended animation.

meet jack frost

With September comes the first frost. Listen in on the radio and get the weather forecast, usually twenty-four to forty-eight hours in advance, and act accordingly, and much can be saved. Usually there is an early frost and then a period of Indian summer of balmy, warmer days. Get the protective coverings ready—cloth, rugs, carpets, sheets, shields, screens, tarpaulin, straw, paper. Remember, the frost strikes the lowest regions first, for the simple reason that cold air sinks to the depths. It is often possible to overcome the first light frosts by turning on the sprinkler system and showering the frozen, ice-tipped plants with cold water—the colder, the better. The mild thawing, thus induced, leaves no permanent injury on beans, tomato, and other otherwise tender crops.



REMINISCENCE of the New York Spring Flower Show last March suggests that it is time to think about ordering your Dutch bulbs for planting next month. First plant the Narcissus and Daffodils; the earlier, the better. Then think of the Hyacinths. Last of all, the Tulips. In fact, deliberate late planting of Tulips is often advisable. The other bulbs must get the earliest possible start. Order not later than September. It is a case of first come, first served. These views were made at the exhibit of the Federated Garden Clubs of New York State. Top, terrace planting by the Douglaston Garden Club. The first prize exhibit is shown below, by the New Rochelle, N. Y., Garden Club, winner of the Gold Medal. Both entries in the class for terrace planting. Remember, the spring bloom from bulbs must be thought about, arranged for, and planted in the fall. Now is the time to start.

F. M. Demarest

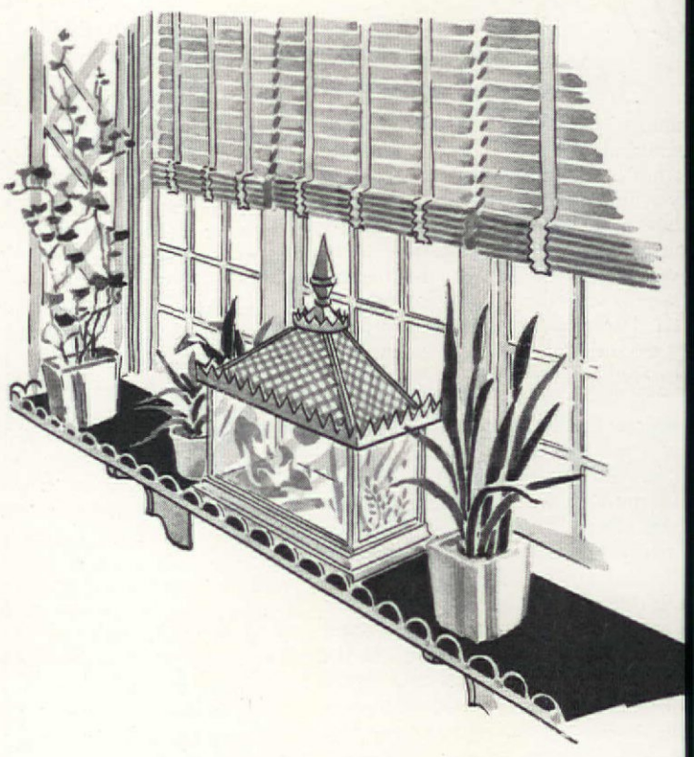
Ideas for frayed houses

HAZEL DELL BROWN

Drawings

by

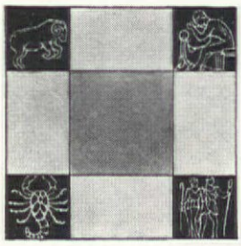
HENRY FRANK SCHOPF

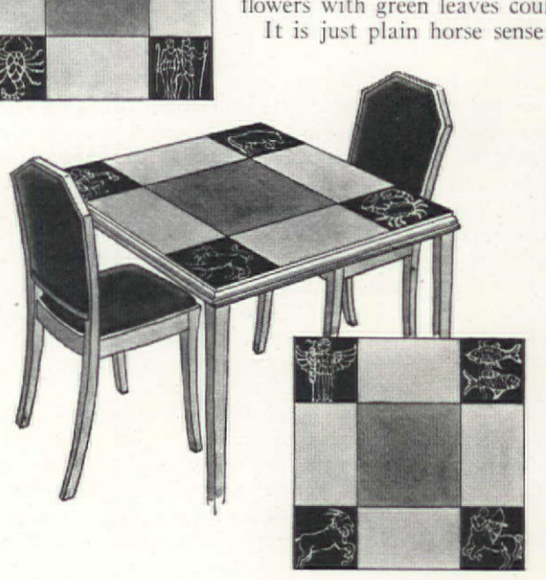


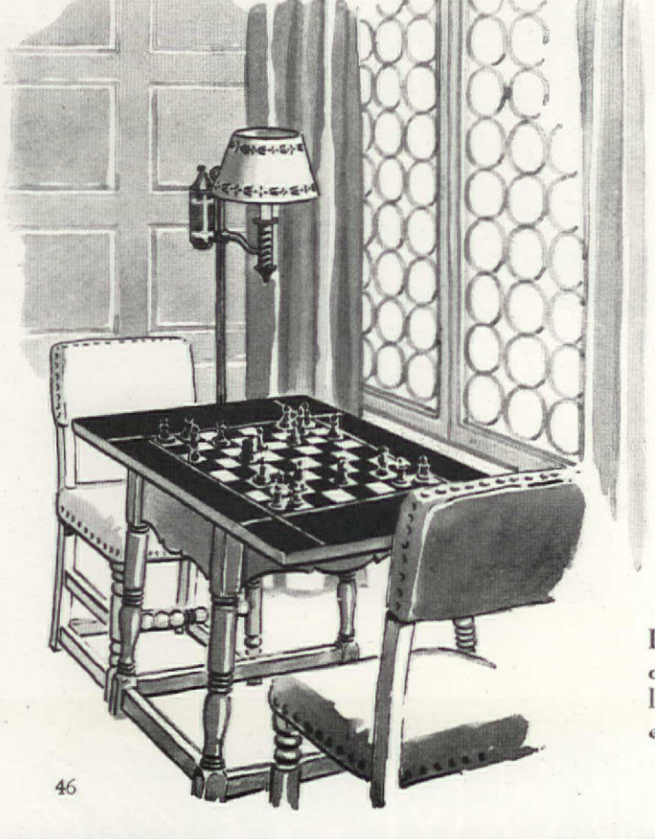
IT STARTED with floors—did linoleum—and having pr itself so very practical for that, decided to run up wall a couple of years ago. That venture being astonish successful, it is now doing tricks—neat, smart tricks all the house. If you have a flower garden and are an invet "bouquet arranger," you may have, and if not, you cert would adore having, a little flower room. Could anythi better for your shelves and counters than a waterproof leum finish? To make it more exciting, splashy red and y flowers with green leaves could be cut into the dresser

It is just plain horse sense to cover the counter top shelves of your kitche butler's pantry with linol so quiet, so easily cle and permanently good- ing, withal. Away with sanitary, messy shelf pa

Have you ever racked brain for a really good- ing way to preserve window ledges against ravages of flower pots? it is! For ridiculously you can cement a heavy of inlaid linoleum to ledges and if you want still further with the add a little decorative fence to the edge as sh

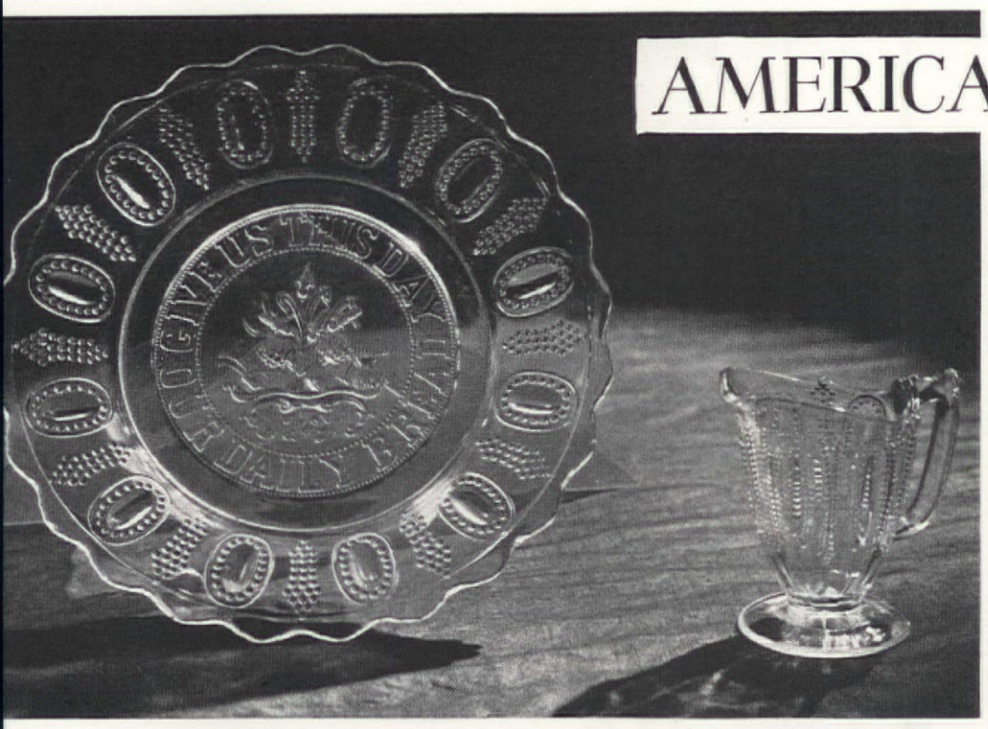






Have you a chess or checker addict in your family? Why not a permanent b of smooth linoleum inlaid with precise ivory and black squares and bright line border? Or a set of three bridge tables with the signs of the Zodiac carve each corner would be unique. Thick linoleum can be carved in smart bas

AMERICAN pattern glass



eleven inches in diameter; pattern called One Hundred and One.
r, small, same design. There are many variants of this pattern

FRANCES TILLMAN

Sugar bowl with hand, quite tall

Saw-tooth and Lion Pattern, seven inches long by four and half high. Handles are small lion head design

s is a big subject for a brief outline and t in a few minutes enough interest can ated in a group of ten people to start at our of them on the quest of old glass- nd cause them to begin seeking its his- One will go home to look for forgotten res, another will send for expensive and catalogues in which to study the t, the third will haunt the antique the fourth will be lucky enough to le upon some valuable piece of glass in out-of-the-way corner, probably luck or ly a flair for the rare thing. It is an sorbing study and hobby.

s said, "What one generation loves the ne laughs at." However this does not nt these objects of derision from having in their own right, which is truly the n many of the designs and patterns of American-made glass. Collectors are in- ed by different motives: some love old because they are old, others like any- that is beautiful that forms a link in story of an industry which has helped progress of civilization.

most popular hobby of today is col- American pressed or pattern glass, must be acknowledged that much of lass is lovely in design, graceful in and beautiful in its coloring. It is not pensive hobby. After pressed glass be- o be made in quantities it was not an cratic product and no one could have ed that plates at three dollars a dozen , seventy-five years later, sell for thirty as much when sought by collectors.

ry collector should know more than the e facts about glass. To gather the essen- naracteristics of any glass period takes nd patience. Early documents on the t are lacking, so that much of our edge is mere conjecture.

beginning of glass is shrouded in mys- ut every one must hear once, at least, ble that glass was the product of Divine wrath, having been produced from fire from on high which vitrified the bricks with which mortals were building the tower of Babel. Another familiar story comes from Pliny, the historian. A group of Phoenician sailors returning from Egypt to Syria with a cargo of natron (soda) were driven ashore by a storm at the mouth of the river Belsus. Here they made a fire of dry seaweed to cook their meals and rested the pots on blocks of natron. When these fires went out the sailors found melted natron mixed with sand and ashes of seaweed—the first glass. Among the Egyptians glass was considered valuable enough to bedeck a Pharaoh and was often combined with precious stones, not intended to deceive, but considered to be of great intrinsic value due to their unusual quality and to the difficulty of manufacture.

From the scene of its invention or discovery the art of glass making spread rapidly. Rome became the leader in the work until the northern barbarians descended upon Italy. After this the art was kept alive by the churches and monasteries where they made mosaics and glass windows. Venice became the center of the industry, though some claim that the art was dead in Europe and that it was brought back from the Orient by merchants trading in the Far East by way of the Mediterranean and Suez. At any rate, glass making shared in the Renaissance and eventually found its way to our own continent in the very earliest days of American settlements. Blowing was the only method commonly used in shaping glass in Venice, the workers concentrated in Murano. Many escaped to other countries and carried their secrets of glass making with them.

It is a mystery that the early settlers in our country, realizing the danger of isolated buildings, should have gone into the heart of the forest to make glass. The Indians destroyed many of the kilns and the question of the fate of many of the early glass makers is unknown. In Virginia the first glasshouses were manned by Italians but were not overly successful as it was hard to get the right materials. Besides the Virginia glasshouses there were successful houses in Salem, Mass., and at Sandwich, Mass. Others flourished in New Amsterdam, in Pennsylvania, and in New Jersey. From time to time foreign glass workers came over and gradually the industry grew and expanded.

In the early part of the 19th century practically all of American small glass was blown and hand molded but with the new methods introduced at the factory at Sandwich, which provided a complete mechanical technique for pressing the molten glass into hard wooden molds, the manufacture of glass was revolutionized almost over night.

The mechanics of making pressed glass are comparatively simple. Hot glass is placed in a cylindrical receptacle from which there are outlets into molds. A plunger is then pressed with great weight into the central cylinder thus forcing the molten glass out into the mold. The molds open just in the simple way that a butter mold does and the object is

removed. Molds are made of hard wood, brass, and other suitably durable metals.

By 1827 pressing had become the regular practice in almost all the early glasshouses and in ten years the Sandwich Company was turning out quantities of fine pressed glass. The workmen drifted from factory to factory and for this reason the patterns were similar and often varied only enough to be free from the charge of copying. Since there were few marks or signatures placed on any of the wares, it is now extremely difficult to identify any piece as positively made in any given place or by any special factory.

Judging by materials, where found, and from pieces or sets and collections that have been handed down for several generations, some key to the situation has been given, for these pieces can be identified and serve as samples of the work of the given factories. There are many claimants for the honor of making the first pressed glass and numbers of patents were applied for in the 1820's.

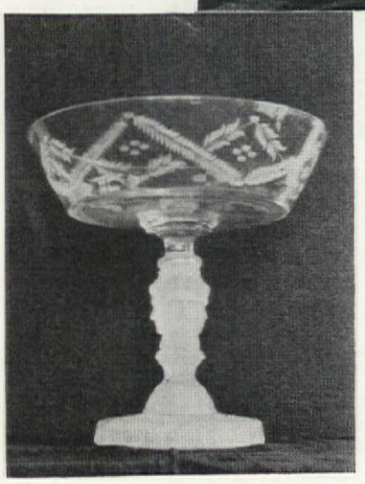
Everything lovely found by collectors is not Sandwich, for it must be emphasized that other factories, especially later Western ones, made equally as attractive and intricate patterns. How the workmen learned to make the exquisite patterns will probably remain a mystery. Perhaps the strangest thing about the old patterns is that there were so few ugly ones, for before 1850 there were hundreds of glasshouses turning out all sorts of articles as well as table ware.

Mrs. Ruth Webb Lee has published a book in which she gives pictures of almost all the old patterns and tells something about each one, naming them as nearly by their old nomenclatures as she could. She gathered her material from everywhere, looked up old catalogues, and newspaper advertisements, visited literally thousands of antique shops. Her book and other books on old American glass can now be found in almost all well-equipped libraries in the country.

Collecting this early pressed glass has truly become an American mania. Clubs have been formed in the East. They meet for discussion and the exchange of patterns. Whole sets of some favorite pattern have been assembled with patience and diligence, one piece and another there. Sets of goblets have brought together from as many as sources and are, of course, of more than single samples. These clubs have dreds of members who sponsor exhib and sales. Such groups are being formed where, some of them in the South.

An Eastern club visited the site of th Sandwich factory and members were al to dig in the débris outside the old bu where they unearthed many bits. There found broken handles and cracked part had been discarded—all revealing the site colors and thus providing a meth identifying other [*Please turn to pag*

Photographs by A. C. Keily



Four small pitchers. All these de found in other table pieces or sets. Fa Waffle; left, Heavy Jewel. Below Paneled Grape, beaded rim; and Cu extremely beautiful base and handle,

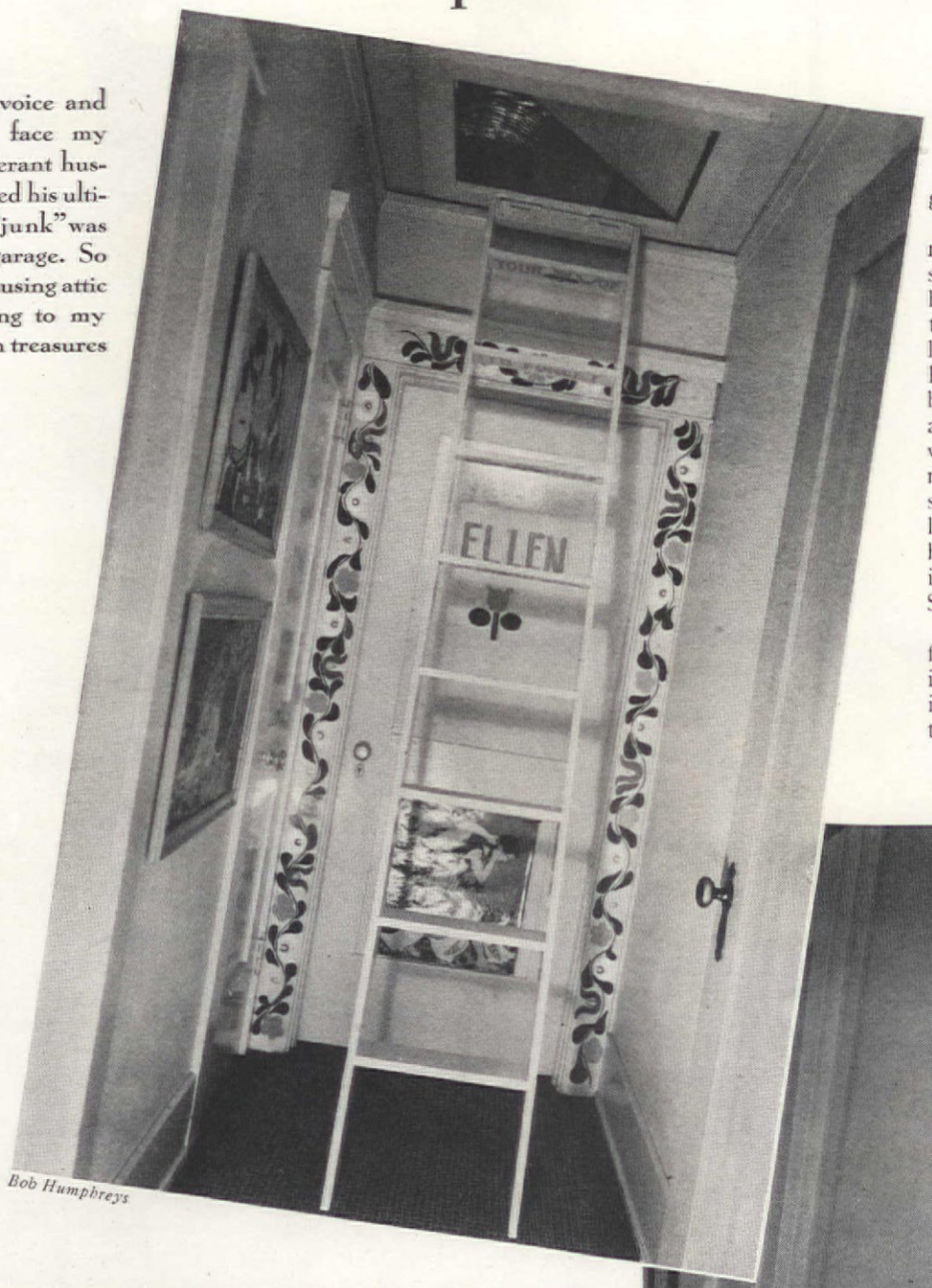
AT LEFT:
Three Face pattern compote. The faces are the same and the glass is frosted. This pattern has been varied and is always good

Top row, four small pitchers. Reading left to right, Tear-drop and Tassel; Dahlia, flower and leaf design on a stippled background, very dainty; Cane—the design closely resembles woven cane; Jacob's Ladder. Bottom row, left to right: Preserve dish called Rochelle or Princess Feather, also known as the Lacy Medallion. Closely resembles the Lacy Sandwich, sparkling; Blue Swan—whitish head. Possibly Sandwich has been copied in pink, and green glass; Swan Sugar Bowl—rare. Swan knob on cover, and elaborate medallion set in a mesh background. Blue Hat—Daisy and Button pattern. Bottle with Swirl top and a variant of the Daisy and Button design at the bottom

Trapdoors to Treasures

ELLEN SHERIDAN

h stern voice and
sterner face my
rally tolerant hus-
l delivered his ulti-
m: my "junk" was
ve his garage. So
's my amusing attic
er leading to my
y hidden treasures



Bob Humphreys

M A hunter of junk—a haunter of second-hand shops! From every ook and cranny, I collect it. Out of this junk, the most marvelous gs are made! But, until recently, I had no place for all these grel articles except the garage, where they lay about mixed my husband's cherished and sacred tools.

ere came the long remembered day when with stern voice and sterner face, my generally tolerant husband delivered his ulti-m in no uncertain terms: my junk was to leave his garage. And ely could I blame him! Were he lucky enough to find a tool, there no room left for him to use it. Then, too, there was the matter e car. Every time any member of the family backed it out, a or an iron coil or an old wheel would cling tenaciously and rrassingly to the bumper. Small wonder then I had become a nce to all concerned!

t what to do. I was panic-stricken. I thought of that bottomless hair, wheedled from a merchant for fifty cents. I thought of the idated baby carriage which I had pictured converted into an ual and charming tea table for the court. Where could I safe-d such cumbersome and ugly things. Besides, always when I was le to locate some treasure, I suspected the family of hiring a truck carting off some of my "stuff" during my absence.

en came an inspiration. At the end of a long hall, painted a very yellow, into which open the bedrooms, was a trapdoor into the lled attic. Few homes in the West have attics such as those with h Eastern homes are blessed. Ours is no exception. It was without ing and only at the roof peak can one stand upright without getting a good sound bump on the head.

Previously, at the risk of every bone in my body while precariously standing on a stool on a box on another box, I had somehow managed to balance a few things on the rafters of this attic. This place now loomed as the only solution to my problem. But how to get into it without risking a broken neck? I began investigating folding and disappearing ladders. I discovered they were rather expensive. Then too, there was not room for a ladder to fold in the small space the attic afforded. The only thing left to do was to build an ordinary ladder, hinge it to the opening at one end and hook it to the ceiling at the other end with two Spanish wrought-iron hooks.

A kindly carpenter made me one, eight feet and nine inches long and seventeen inches wide. The rungs and sides are five inches wide. The whole ladder made of three fourths inch material. But a ladder

[*Please turn to page 112*]

Drawing by the

A child's bunk room—6' x 8'6" for $30

Inspired by ship architecture where complete living quarters must be designed for very small areas

HENRY R. DIAMOND

ıONEY had been no object this little room e built for our twelve-year-old daughter d quite probably have remained but a e dream to be tried out as an interesting iment at some future time. I have always interested in a more efficient use of space, in part, to an intense admiration for the y of naval architects to create complete g quarters in areas that most architects d label "closet" or "sewing room."

wever, three years ago, when we decided uild a house, we had very little money which to start. Our income was conably diminished and mortgage money ically non-existant! Having been an tectural designer for many years, the ion of a house on paper was compara- simple, but to translate drawings into nsions, things not only had to be boiled —they had to be distilled!

ere was no way of getting around the that the house had to be small, very ; and as we like space to move around must do with fewer rooms. So the living became my studio as well and, on state ions, the dining room—space having provided in the kitchen for the usual -day family meals.

course, we hope some day to add to the and provisions have been made for this, t present one large bedroom for ourselves and a smaller one for our daughter are sufficient. This latter room is adjacent to the stairs and its floor dimensions are only 6′ x 8′ 6″. When you add the space over the stairs the size increases to 9′ 6″ x 8′ 6″, but not all on the same plane. And this is where the idea of the bunk saved the day because, by elevating it a little over three feet, it fitted in beautifully over the stair well and gave us a bed without encroaching on our 6′ x 8′ clear floor space. We had to keep this space as free of furniture as possible so, instead of a stool or ladder, two foot holes in the paneling provided access to the bunk. The deep drawer and closets underneath served in place of a chest of drawers while the wall space at the side made an excellent bookcase.

Having solved the problem of getting in the bunk, the next problem was how to prevent one from rolling out unexpectedly—which explains the removable side board. A shallow closet next to the door takes care of dresses, etc., so the only necessary movable furniture is a table, two chairs, and a small chest underneath the low window. As the room is small the lantern hanging from the adzed beam furnishes plenty of illumination although two base receptacles are provided for lamps.

In order to provide cross ventilation I have built a casement window at the head of the bunk. This opens on the hall and catches the breeze from the hall window. The walls and ceiling are insulated with Celotex and as the walls of knotty pine paneling are, of course, furred out from the insulating board, we have an additional dead air space. Consequently the room is very easy to heat in the winter and is cool even on hot summer nights.

We built the entire room ourselves, after we had moved in. All of the woodwork, even the floor, is of ¾″ tongued and grooved white pine. For the floor we used boards 6″ wide and for the walls and under the bunk we used the 10″ width. As we had a set of old moulding planes, we moulded the sides of the boards used on the wall.

We stained the floor with a mixture of burnt umber and black oil color diluted with turpentine, then gave it a thin coat of shellac followed by several coats of wax. The same process was used on the rest of the woodwork substituting raw sienna and turpentine for the umber and black. This gave a honey color to the woodwork which, with the canary yellow of the ceiling and wall of the bunk, gave a sunny effect to this north room.

The entire cost for materials was about $30. Of course the principal item in a room of this kind is the labor but we did this ourselves after we had moved in. We happened to possess a studio couch which we no longer needed, so we merely sawed off the legs and lifted it into place on the steel framework provided for it, and the problem of a spring and mattress was solved.

Our daughter and all of the children who have seen it are delighted with the room. Our experiment, we feel, is a success; not a tricky stunt but a very pleasant, efficient, and completely livable room.

A maid in for the party

MIRIAM HIXON SUNDERLAND

VE you ever tried to help your hostess? Then you know something of what the who comes in to help is faced with. You nber, you didn't know just how your l liked things done and you couldn't find s you needed. Even such relatively simple as clearing the table and doing the s become more complicated in another's . The maid who comes in to help you your party is in exactly the same fix. she has probably had a good deal of exnce in strange houses, but she doesn't your ways. Don't expect her to be a mind r. Give her complete and exact instruc- The experienced maid who is accustomed ving at parties wants them, and for the vely unskilled, they are imperative. You your party to go off smoothly and so your maid. She will do her utmost and will be well nigh perfection if you do part towards the success.

itten instructions are far and away the best—first, because too many verbal directions given at once are sure to be confusing and something is certain to be forgotten; second, because a written list seems to impart a desirable feeling of responsibility and of being a part of important affairs; third, written instructions have a way of making you plan more completely and carefully. Save the list. It will help you the next time.

The sort of party you are having will, of course, determine the kind of directions you give. However, it is always practical to give a few general instructions. Insist on a neat uniform, including a cap if possible. Remind your maid to appear pleasant and to be very quiet and attentive during service. Tell her exactly how you want her to answer your guests so that you will not be embarrassed by hearing "O.K." when you expected to hear, "Yes M'am." Tell her to open the door as wide as possible and to let go of the handle and stand back. If she is to announce your guests, tell her to ask, "What name, if you please, Madam (or Sir)?", if she does not know the person at the door. If she is to show your guests where to leave their wraps, instruct her in detail as to the procedure. Tell her how you want her to direct your guests to the living room or wherever you are receiving. If you are able to find a highly trained and experienced maid, you may not need to go over these things, but unless you know just how she will act, it is wisest, for you want to be sure that she will not let you down.

If you are very lucky, your maid will know how to wait on table or help with the service at a tea, cocktail party, or buffet supper. Perhaps, or rather probably, you will have to teach her. Unless she is unusually apt and bright, don't expect one lesson to be enough. Most likely she will need several rehearsals. I have found it helpful to let her practice on the family. And that isn't as extravagant as it sounds. Do you like to entertain at dinner? Then you might have her serve family dinner on Sunday two or three times for practice. Surely you and the family will enjoy the little change. Or, if teas, cocktail parties, or buffet suppers fit in better with your scheme, you might have one or two gala family parties. They will enjoy it and you will find that in the end it pays a hundredfold.

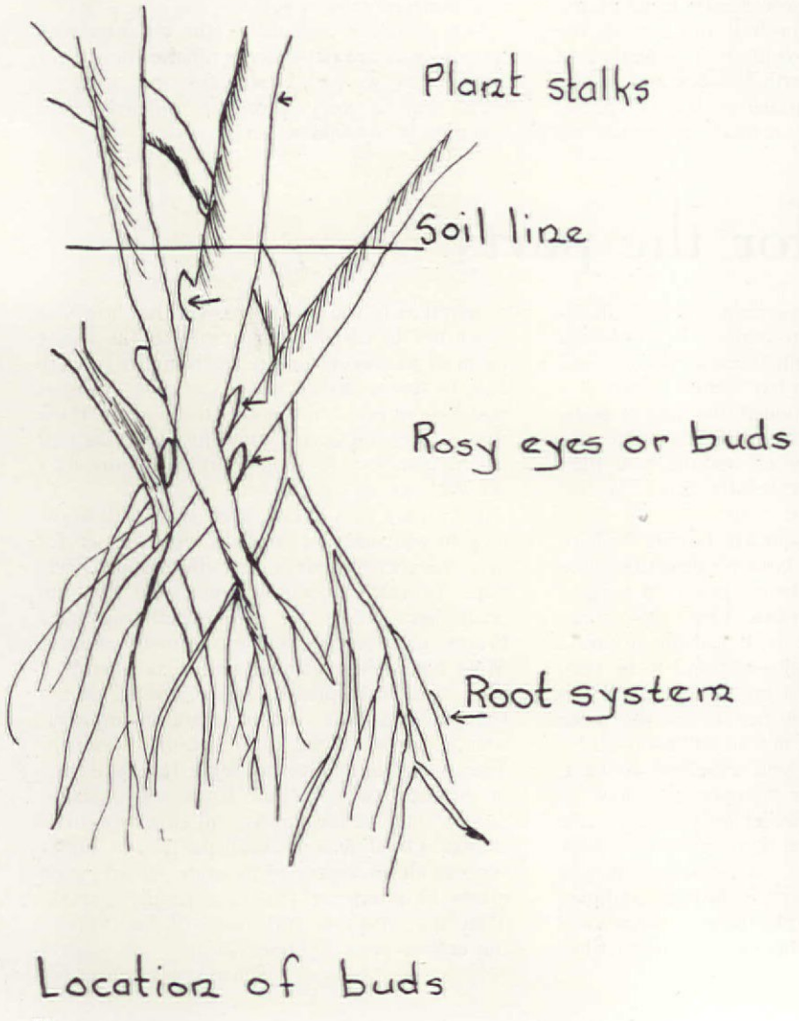
[*Please turn to page 72*]

PLANTING PEONIES?

Laura G. Hammersley

MARGARET CLERIHEW

Was your climb to su
with Peonies less triump
this year? Were the blossoms meager and the foliage pun
you will give the Peony that most important condition, the
start, it will be a servant faithful to the master who has tho
fully supplied its few needs at the beginning of its splendid c



Location of buds

SINCE the Peony is not a temperamental performer, perhaps require that you give them a new lease on life for the many, seasons they have served you. Or perhaps you are contemplating ing a row of Peonies, but hesitate lest insufficient knowledge failure to your venture.

For many years Peony culture was haphazard, due to the lack of standardization. With the advent of the American Society in 1903, Peony cultivation received a strong upward Instead of the confusing and arbitrary procedure which led t listing of any one kind under half a dozen or so names, a numb people, assisted by many growers, set about the colossal task of ing, naming, and labeling the many varieties. Gradually data accumulated concerning the relative values of the different var until today you can refer with confidence to the check list of Pe issued by the American Peony Society. This check list rates th rieties on a basis of ten. A Peony of 8.5 or higher is a good perfo A rating of 7.5 or lower will result in the recommendation tha particular Peony of that rank be discontinued.

With a rated check list, go to Peony gardens and make your selections directly from the plants and blossoms themselves. You not be purchasing on sight unseen, and the visit will satisfy you the grower's standards of efficiency, honesty, and accuracy.

The different types of Peonies are very well standardized. The S type develops a flower with one or two rows of true, or guard, pet the center of which are normal stamens having pollen bearing ant The Japanese type also has one or two rows of guard petals and poorly developed anthers almost without pollen. In the Anemone no anthers are developed at all and the filaments or stalks of the mens look like petals though narrow and somewhat twisted. Ar the outer edge are the showy true petals. The Semi-double type a more graceful, artistic appearance by reason of the presence of stamens scattered among the broad petals. The Double type is

ly made up entirely of broad petals, g any stamens or pistils. Such petals are r modifications of the stamens. The terms and Crown type are disappearing be- the gradations between these types are ht as to be confusing. Perhaps the group- ll eventually be reduced to just the three Single, Double, and Japanese.

newer hybrids are more satisfactory he old common Peony because they have developed carefully to produce certain d characteristics. Any number of lists of ar and satisfactory Peonies might be tted, but the ten following have been d on a basis of rating and price:

Cygne: 9.9—large, white, early
Crousse: 8.4—one of the best red varieties; to have stems supported
Harding: 9.5—double, flesh pink
ese: 9.8—double, old rose, thick foliage
iva Maxima: 9.3—white with flakes of n about the center
vay's Glorious: 9.9—white with crimson

evere: 8.6—yellow, Anemone type, slightly satisfactory than Laura Dessert
er Faxon: 9.3—glowing rich shell pink; n strong sun
phe Rousseau: 8.5—dark red, slightly un- nt odor
e Du Bois: 8.7—double, rose pink

chpenny buying is dangerous and often tely expensive, like the old proverb, best is dearest." The roots of such "bar- may be bruised, rendering the plant

Saunders & Craig

vingstone Farrand is the name of the new sensa- cony that won The American Home Achieve- edal at the Toronto Peony Show in June. It has drous glowing pink hitherto seen only in Walter nd says our reporter (page 118) "it is superior"

iable to infection, or the labeling may ertain and will only result in disappoint- he next season. Invest wisely according r means and knowledge, because Peonies nted for years, not weeks.

roots taken from three- or four-year old having from three to five rosy "eyes" s, and six to eight inches of new root . Peony roots grow the most during nd early August. The vitality of the is dependent upon this new growth to a start the next season. Late in August rost is the best time to divide and re- but roots may be held over in cold storage until spring. Spring planting is by no means a certain prophecy that one will fail, although it is the second choice in planting.

After you have made your selections, the next step is the choosing and preparing of your site. Rich loamy soil is best, but if it is of heavy clay, it can be lightened by using leaf mold, well-rotted manure, or sand. Choose a spot which has morning shade by bright sunlight later in the day. The more delicately tinted blossoms suffer if they receive the early morning sun. The entire plant suffers if sunlight does not strike directly on the green parts during the afternoon because sunlight is necessary for the manufacture of food in these parts.

Dig the ground to a depth of two feet. If there is a layer of hardpan, remove about a foot of this soil or it will permit water to collect, and hinder proper root growth. Gravel or cinders may be substituted to insure good drainage. Replace the topsoil and let it settle. A handful of a good plant food should be worked in around each plant well below the surface. Although the Peony needs lots of food one should not in any event use raw, unrotted stable manures.

Plant the roots with the topmost eye an inch and a half below the surface in heavy soil and an inch deeper in light, friable, or easily crumbling soil. Firm the ground around the roots and water plentifully. A mulch of manure, leaves, and cornstalks, after planting, will prevent winter thawing and heaving of plants out of the ground by frost action. Label the plants plainly and permanently. Use galvanized rods eighteen to twenty-four inches long. Mark white linen labels with black indelible ink and fasten both ends to the rods.

For abundant bloom Peonies need deep and frequent cultivation; plenty of water, good drainage, lest the water settle in pools. Early in the spring the addition of a little sheep or cow manure well mixed with the soil will supply adequate food. Be careful that no manure or any prepared plant food actually touches the stems or roots. It may "burn" the tissues. Pinching off lateral buds will tend to strengthen the terminal bud and to make it larger. It is good practice to provide a support for the plant before the foliage becomes too thick and the heavy blossoms droop. A simple support may be made of several hoops and three or four stakes fastened together. Then the foliage grows over this so that the support is neither conspicuous nor unsightly and the plants are uniformly supported.

Peonies have been known to blossom luxuriantly for several generations without division; but when blossoms become meager and all the strength goes to thick stems, or many puny branches are developed, it is advisable to divide the clump or mass of roots. This can be done any time after the third year by the amateur with perfect safety. To do this, spade in a wide circle around the plant; Remove the Peony from the ground with caution, and all pieces of the root from the soil or they may grow and perplex the gardener. The roots are fragile when first unearthed and must be allowed to stand for several hours. Wilting makes the roots softer and easier to handle. Shake off as much earth as possible. The rest may be removed by washing the roots by swishing up and down in a tub of water. Then cut the tops down almost to the crown which is about at the soil line.

To spare yourself back breaking exercise, work at a waist-high table. Bend the roots back and forth until the places where the root will separate easily are readily seen. Use a stout

[*Please turn to page 85*]

Your good friend —THE TOAD

WALLACE A. SCOTTEN

IN THE tall grass or under the spreading rhubarb down at the end of the garden lives your old friend, the toad. Hiding away in some dark, cool, sequestered spot during the heat of the day, he hops out at dusk for a nocturnal jaunt through dew-swathed grasses and a communion with the moon and stars, while he is busy at his task of making it possible for mankind to eat!

Perhaps you have long harbored thoughts of the little toad as an ugly creature about whose being so much superstition has been woven, that if only half of it were true, he would be unworthy of the right to exist. And,

The tree toad found chiefly in the southwestern part of the United States. Top of page, the more common garden toad

no doubt, you do not consider the toad a friend, and feel sure that your life without him would be just as abundant.

But these are all mistaken ideas, for that ugly looking old toad is a true friend of man and has an infinite part in making it possible for humans to reap the fruits of the earth.

The reason is this. The existence of all life, animal and vegetable alike, is determined by its enemies, since it is subject to destruction. Since man's greatest enemies are no longer wild animals, as civilization has almost completely wiped them out, his enemies are to be found among the insects that yearly destroy millions of dollars worth of foodstuffs so vital to his sustenance—his life.

These insects reproduce literally billions of their species each year. They would overrun

[*Please turn to page 109*]

TO HELP YOU HOUSEKEEP

LISSA NORCROSS AND EMILY HERZOG

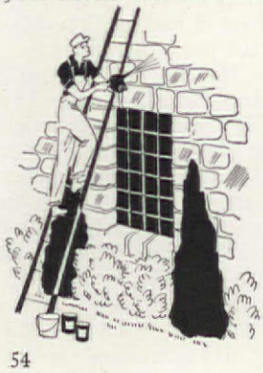
The contented cow has entered the paint business to help you finish the walls of your living room for less money than ever before. A new flat wall finish made of casein, from milk, comes in the form of a stiff paste equal to a gallon of paint, which is mixed with two quarts of water, and covers from 500 to 700 square feet. It dries in fifty minutes; two coats can be applied in half a day; and it comes in nine delicate colors. It has greater hiding power than ordinary flat paint, because the pigment of the milk-made paint is denser. And it has no unpleasant odor, not even a smell which makes you remember the dairy. Of course, it smudges a little more easily than enamel, but not as much as kalsomine, with which it compares in price and use. All hail Bossy, the home-maker's friend!

If you hate to take ice cubes out of your electric refrigerator because the jerking and pulling wears you out, you will welcome the news of an automatic defrosting device which gets rid of ice tray exercise. It prevents ice incrustation, as well as reduces current consumption. All it looks like is a white enamel case with a dial on the front. Installed for $15, it hangs on the wall above your refrigerator or rests on a near-by shelf. By some magic it keeps the temperature inside the refrigerator down to the proper degree of coolness, but never so cold that it freezes anything but the ice cubes. Also humidifies the interior of the box.

When you see a notice "Artist's home for sale," you can be sure it won't be on the market long. Why? Because artist's homes usually have the extra attraction of a painting or a drawing here and there, to enliven the interior. Now you can have a home like an artist's, even if you are not gifted with pen or pencil. A new washable poster-silhouette to paste on walls gives the effect of original work. They'll go on wood enamel, tile, glass, and plaster—$1.00 a package.

Keep walls clean with the new lamb's wool brushes, made with four teeth for cleaning on both sides of things at once. Price, only $1.50. They whisk the dust off, lightly, without danger of marring the surface. An adjustable feature makes it possible to turn each of the four sections several times, while in use, to get at a fresh dusting surface. Then, too, those same fingers can be used separately, on the same handle, for poking into small corners.

Chamois finish metal makes the newest closet fixtures we know about. Hat rests, handbag holders, tie racks, stocking, belt and shoe racks are made of this strange new material. The sturdy core of each can stand heavy loads of your possessions, without letting a single one slip off into a heap. If you have the makings of being an orderly soul, then give yourself a chance and equip your closets with these new aids.



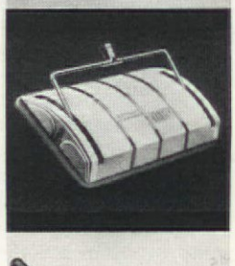
"Liquid Cellophane" is the way we'd describe the newest waterproofing for house walls of stone, concrete, stucco, and brick. If you've ever lived in a house built of these materials you know how a driving rain can eventually seep through to ruin your plaster and wallpaper. This new waterproofer is sprayed or painted onto the outside walls of your house. It is a colorless, transparent liquid that penetrates deep into the pores of the masonry or stucco. Any handy-man can apply it if he follows directions.

Kitchen towels you don't have to wash—welcome phrase to the ears of the hou These handy Scot Towels are made of hig sorbent paper, clean and chemically pure are always ready for use, clean and dry. Ju one off, use and throw it away—no washi ironing! Use them to drain foods on, to w spilled things, to clean off the top of the st polish glassware, and to dry fruits and veg after washing. They're grand too for the c to dry their hands—they eliminate those hand prints that appear on the hand towe Johnnie has washed his hands "span clean It is comparatively inexpensive, too.

KVP Dusting Paper is a modern, che treated, soft rag-like material, saturated wi grade furniture polish. Use it as you would style dust cloth. It cleans and polishes as i Will not harm the finest furniture, and is the hands. It also retards rust and leaves tive coating on metal fixtures, golf club and tools used by the handy man.

Ozite Circle Tread is a new and fi cushion that's softer than ever. Spring fe the circle tread design is the result of s study, and it increases the cushion action hair so that your rugs feel softer and ar more protection against wear. This is an e Ozite process. Ozite Circle Tread is deo is permanently mothproofed, and has a center to prevent lumping.

Jam and jelly makers will be glad to kno Jiffy Seal. It is a five inch disc of a ver transparent cellulose discovery which is p from a special form of Cellophane. It do with all the bother of wax-sealing. The app is simple. This disc is simply moistened a over the top of the filled jar or glass. T edges are smoothed down and fastened i around the jar lip with a rubber band. Th lose seal shrinks while drying and this against the glass at every point as tightly were glued. It is practically impervious thereby decreasing the chance of mold sealed product. A first-aid to jelly maki



Bissell's Vanity Carpet Sweeper is efficie modernly designed. Its sleek trim body l flect the grace of the modern mode. The of strong durable lacquer with modern plate trim. It has a one piece, grey rubber of pillow softness and the handle is in smo lacquer finish to match. Comes in Catalina Riviera Green and Ebony Black. Attr priced, light and easy to handle. Gets aro under low furniture with ease.

Every Cadillac vacuum cleaner, at w price, has an electric floor light, placed in position to throw light directly in front nozzle, without shadows—in conformity ideas of the National Better Light-Bett Campaign. All have specially built mo large 8-blade fan (instead of usual 6 bl greater suction power. Nozzles adjust *ex* fit *every* rug thickness. Simple connec attachments; non-clogging bag; rubber and finger tip power switch.

The products and appliances referred to her be found in the large housefurnishing stores i nearest city. If you are unable to find th shall be pleased to supply the necessary infor upon receipt of a stamped addressed en

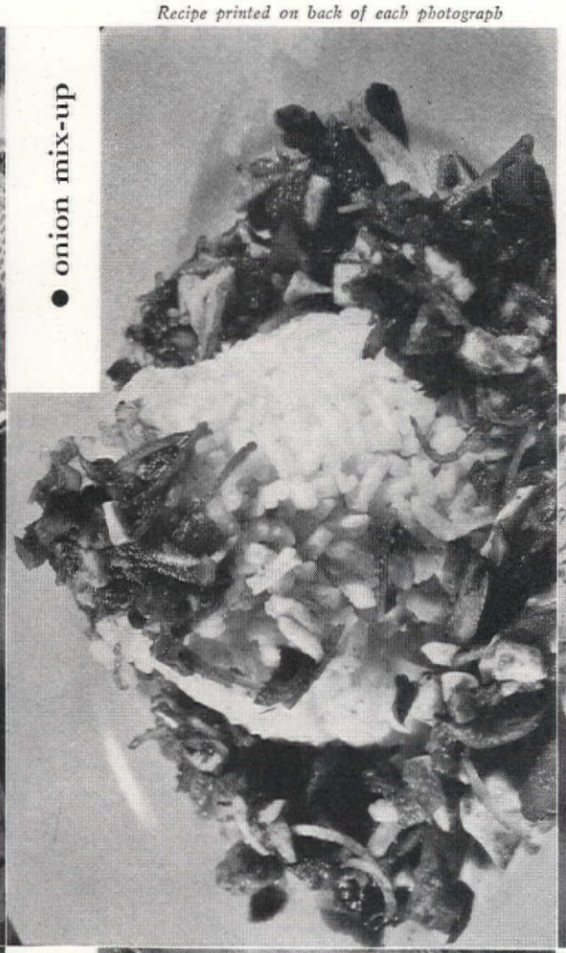
Stretch the budget by using onions

The inexpensive, healthful onion is always on the market and lends itself nicely to variety in preparation. Try introducing this "friend of the budget" to your family in the ways shown here.—ANDREA CHANNING

Recipe printed on back of each photograph

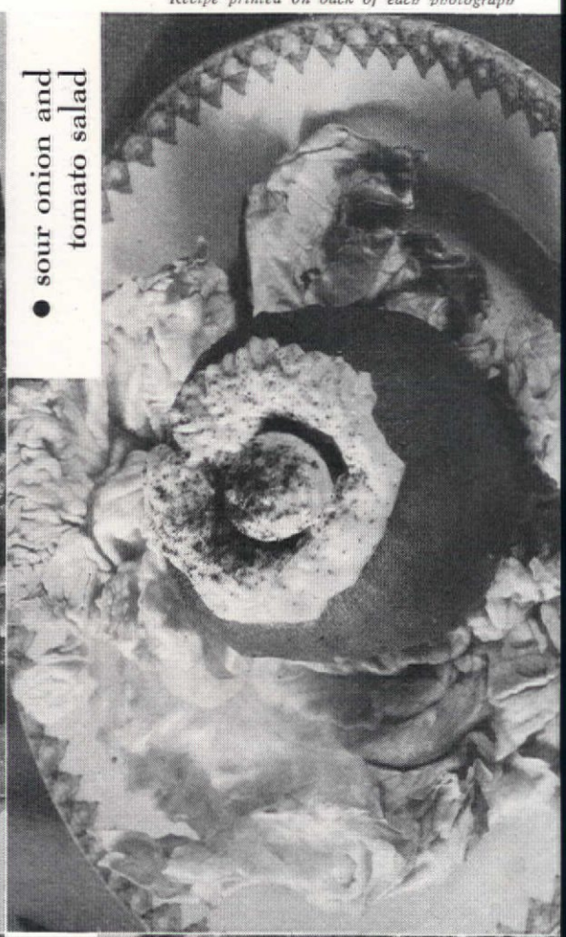
Recipe printed on back of each photograph

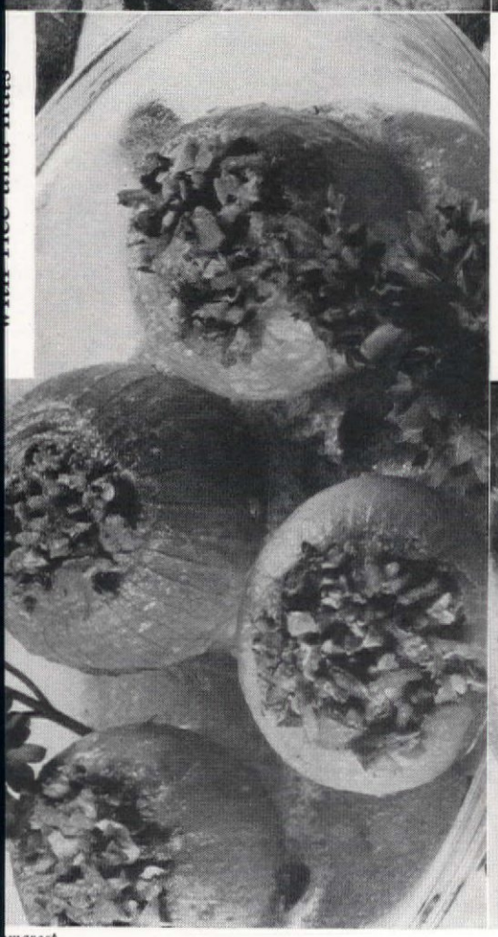
• onion mix-up



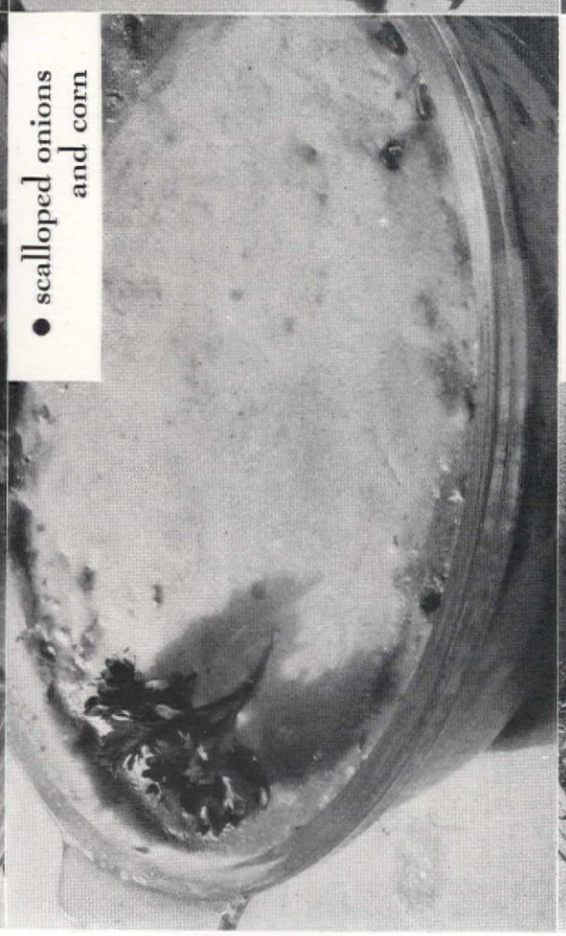
Recipe printed on back of each photograph

• sour onion and tomato salad





• scalloped onions and corn



• onions in jackets

Stretch the budget by using onions

The onion has been cultivated from time immemorial. It is one of the earliest cultivated plants and is represented on Egyptian monuments, and one variety cultivated in Egypt was accorded divine honors.—ANDREA CHANNING

Photograph printed on back of each recipe

• onions in jackets

3 Bermuda onions
1 egg
½ cupful heavy cream (or condensed milk)
Pepper and salt

SLICE onions in ¼ inch slices. Mix egg and cream together and season with pepper and salt. Dip onion slices in this mixture so that each slice is thoroughly coated. Fry in deep fat until golden brown. Drain and serve at once.

Tested by THE AMERICAN HOME

• sour onion and tomato salad

4 large firm tomatoes
1 head lettuce
½ cucumber, chopped
¼ cupful sour pickled onions, sliced thin
½ cupful chopped stuffed olives
2 stalks celery, chopped
¼ cupful French dressing
Mayonnaise

SCALD and remove skins from tomatoes. Chill. Also chill onions, celery, olives, and cucumber. Hollow out centers of tomato carefully so as not to break shell. Combine celery, olives, onions, cucumber, and the pieces of tomato that have been scooped out. Moisten lightly with the French dressing and fill the hollowed tomatoes with this mixture. Garnish top with mayonnaise and serve on crisp lettuce leaves.

Tested by THE AMERICAN HOME

Photograph printed on back of each recipe

• scalloped onions and corn

1 No. 2 can corn
1 No. 2 can peeled white onions (or 2 cupfuls boiled pearl onions)
2 tablespoonfuls butter
2 tablespoonfuls flour
1 cupful milk
Salt and pepper
Buttered crumbs

DRAIN onions. Make a cream sauce by melting butter, adding flour and blending well and then adding milk, pepper, and salt. Into a buttered baking dish place a layer of corn, a layer of onions, a layer of cream sauce and a layer of the crumbs. Repeat until all is used. Bake in a moderate (350° F.) oven for ½ hour.

Tested by THE AMERICAN HOME

• onion mix-up

2 cupfuls cooked rice
4 onions, chopped
¼ cupful toasted, silvered almonds
1 finely chopped hard boiled egg
¼ cupful toasted cocoanut
4 tablespoonfuls butter
1 tablespoonful olive oil
2 sweet pickles, finely chopped

SHAPE mounds of rice on plate. Cook onions, almonds, and cocoanut in butter and olive oil until onions are golden brown. Add chopped egg. Pour over rice mounds and garnish with the chopped pickle.

Tested by THE AMERICAN HOME

Photograph printed on back of each recipe

• baked onions with rice and nuts

4 good sized onions
1 cupful cooked rice
¼ cupful chopped, unblanched almonds
¼ cupful chopped pecans
1 egg, slightly beaten
Pepper and salt to taste

WASH onions but do not peel. Put in pan, cover with boiling water and add ½ teaspoonful salt. Simmer for ½ hour, drain and dry. Remove outside skin and scoop out center of onion, being careful not to break shell. Mix rice, almonds, pecans, egg, salt, and pepper and stuff onion cavities with this. Put in buttered baking dish, brush with melted butter, and bake in a moderate (350° F.) oven ½ hour.

• onion and cheese filling

2 packages cream cheese
¼ cupful minced green onion and tops
2 tablespoonfuls chopped cucumber

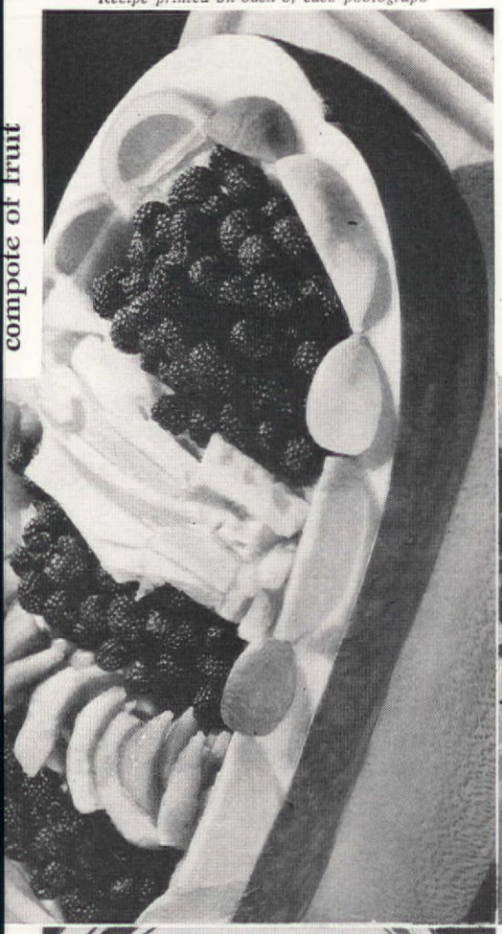
MASH cream cheese with fork. Add onion and cucumber. Blend well. Use as filling for sandwiches or to stuff celery.

Photograph printed on back of each recipe

The cook's family album

The worst thing about hot weather is that people still get hungry. Drat them! One good hot dish will often pacify the angry pack. The thing is to accomplish it without melting yourself, and then thank the stars for a casserole.—MARNI DAVIS WOOD

Recipe printed on back of each photograph



compote of fruit

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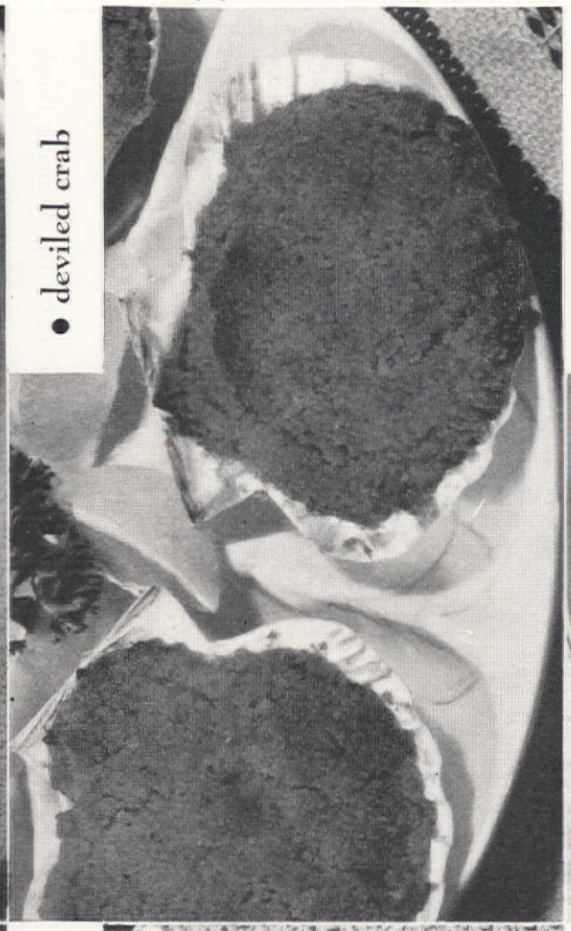
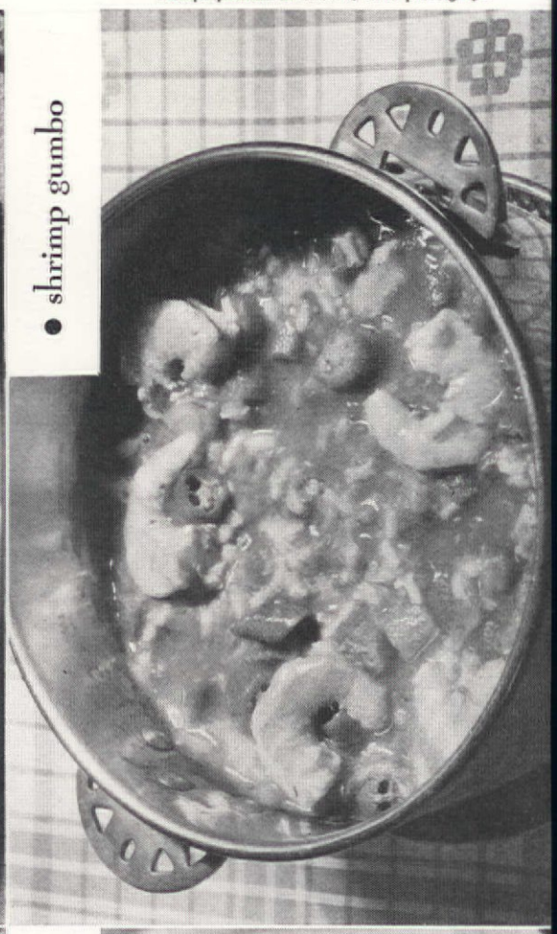


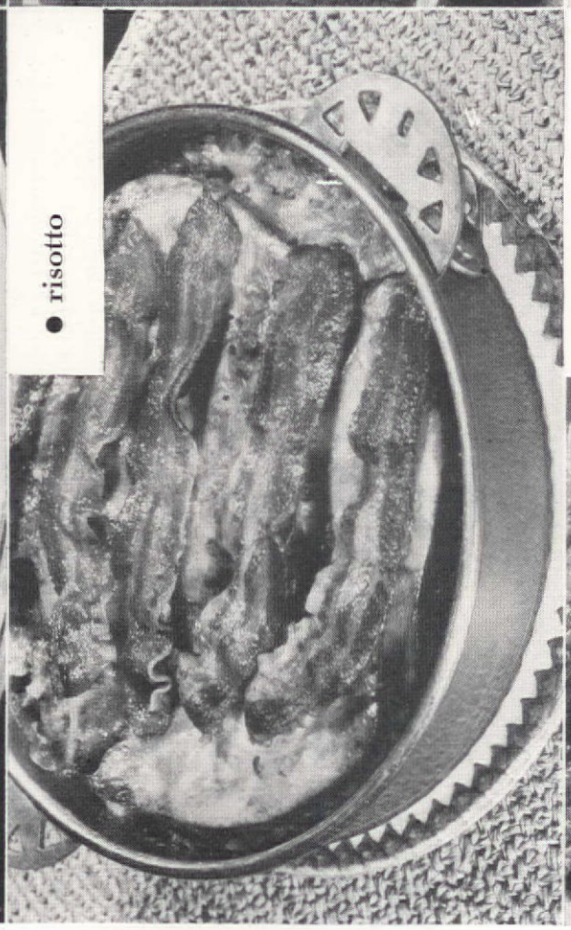
• deviled crab

Recipe printed on back of each photograph



• shrimp gumbo

• risotto



• bouillabaisse

emarest

The cook's family album

Aspics are among the prettiest dishes that can grace a summer table. Another refreshing sight is a compote of luscious chilled fruit.—MARNI DAVIS WOOD

Photograph printed on back of each recipe

Photograph printed on back of each recipe

Photograph printed on back of each recipe

• bouillabaisse

1 pound shrimp — 1 pint scallops
1 pound fillet of haddock or mackerel
1 pound lobster meat — 2 large onions
2 cloves garlic — 1 small can tomatoes
½ pound mushrooms
2 tablespoonfuls butter
1 teaspoonful curry powder
½ cupful sherry
1 bay leaf — 3 whole cloves
Pinch of saffron — 1 teaspoonful salt
Pinch of pepper, thyme, and savory
3 tablespoonfuls grated Parmesan cheese

Boil shrimp in 1 quart salted water with the cloves, for 20 minutes. Strain and reserve the liquid. Fry onions and garlic, chopped, in butter until brown. Add peeled and sliced mushrooms, cook 10 minutes, add tomatoes and ¼ cupful of the sherry. Add curry, bay leaf, salt, pepper, and Parmesan cheese. Simmer for ½ hour. Peel shrimp and remove intestinal vein from back. Add to the above mixture and cook for 10 minutes longer. While this sauce is cooking, gently heat the haddock, lobster, and scallops in the shrimp water. Add the other ¼ cupful sherry, a few cloves, the thyme and savory and the saffron and cook very slowly until the fish is done—about 20 minutes. Remove fish to platter. Strain fish broth into cups and serve first. Then pour the sauce over fish on platter, garnish with lemon and serve immediately.

Tested by THE AMERICAN HOME

• shrimp gumbo

1 pound fresh shrimp
2 tablespoonfuls tarragon vinegar
4 large tomatoes
1 bay leaf
3 onions
1 small can okra
1 tablespoonful butter
1 pimiento
¼ cupful white rice, uncooked
1 teaspoonful Worcestershire sauce
Pinch of thyme
1 tablespoonful chopped parsley
Pinch of pepper
1 teaspoonful salt
1 teaspoonful sugar
1 tablespoonful flour

Boil shrimp and 1 onion in one quart of water with the vinegar for 20 minutes. Reserve water. Peel shrimp and remove intestinal vein from back. Cover rice and okra with one inch of water and cook dry. Add chopped pimiento. Fry the other onions, finely chopped, in the butter in a casserole over a low flame. Add the flour and shrimp stock. When smooth, add okra and rice, shrimp and seasonings. Simmer for 20 minutes and serve piping hot.

Tested by THE AMERICAN HOME

• risotto

3 large onions
2 tablespoonfuls olive oil
¼ teaspoonful saffron
Dash of cayenne
1 teaspoonful paprika
1 tablespoonful chopped parsley
1 cupful brown rice (uncooked)
2 cupfuls bouillon or water
6 slices bacon
½ pound calves liver, sliced thick
2 tablespoonfuls flour
1 tablespoonful lemon juice
2 thin slices lemon, shredded
½ cupful water
½ cupful white wine

Put olive oil in casserole over low flame. Slice the onions into it and add saffron, cayenne, paprika, parsley, and brown rice. As soon as rice begins to pop (about 10 minutes) add 1 cupful bouillon, cook dry and add the other cupful. Stir constantly all the while rice is cooking in oil to prevent sticking and burning. Flour the liver. Fry the bacon until almost crisp, remove from pan and lay on absorbent paper to drain. Fry floured liver in the bacon fat until almost done. Lay liver on top of rice. Make a gravy by adding flour, lemon juice, shredded lemon, water, and white wine to the fat left in the pan after liver is cooked. Pour this gravy over the rice and liver casserole, lay bacon on top and crisp in hot oven for ten minutes. Sausage added to this is perfect.

Tested by THE AMERICAN HOME

• deviled crab

2 small onions
2 tablespoonfuls butter
1 tablespoonful flour
1 tablespoonful lemon juice
1 teaspoonful Worcestershire sauce
Dash of cayenne
1 tablespoonful chopped parsley
½ cupful heavy cream
1 pint flaked crabmeat
1 chopped hard boiled egg
1 cupful buttered crumbs
¼ cupful melted butter
Crab shells or baking shells

Chop onions and sauté in butter. Add flour, lemon juice, Worcestershire, cayenne, parsley, and cream. Cook until smooth and add crabmeat and egg. Fill crab shells or baking shells, cover with buttered crumbs—being careful to cover the edges, pour over a little melted butter and bake in a moderate (350°F.) oven until well browned (about ½ hour).

Tested by THE AMERICAN HOME

• beet aspic

1 box aspic gelatine
1 cupful hot water
1 bay leaf
2 whole peppers
1 clove
1 teaspoonful tarragon vinegar
1 teaspoonful chopped chives
1 can consommé
4 hard boiled eggs, cut in quarters lengthwise
1 small jar caviar
1 small cucumber, sliced
½ cupful sliced beets

Let beets, bay leaf, peppers, clove, tarragon vinegar, and chopped chives stand in the 1 cupful of hot water. Rinse a melon mold with cold water. Arrange caviar in center grooves, then arrange eggs and cucumbers, and lastly the beets. Strain spices from hot water and dissolve gelatine in it. Add consommé. Pour liquid into mold and chill in refrigerator for at least 12 hours. Unmold, decorate the divisions with cold Hollandaise sauce put through pastry tube, and *do not* serve on a bed of lettuce.

• watermelon compote of fruit

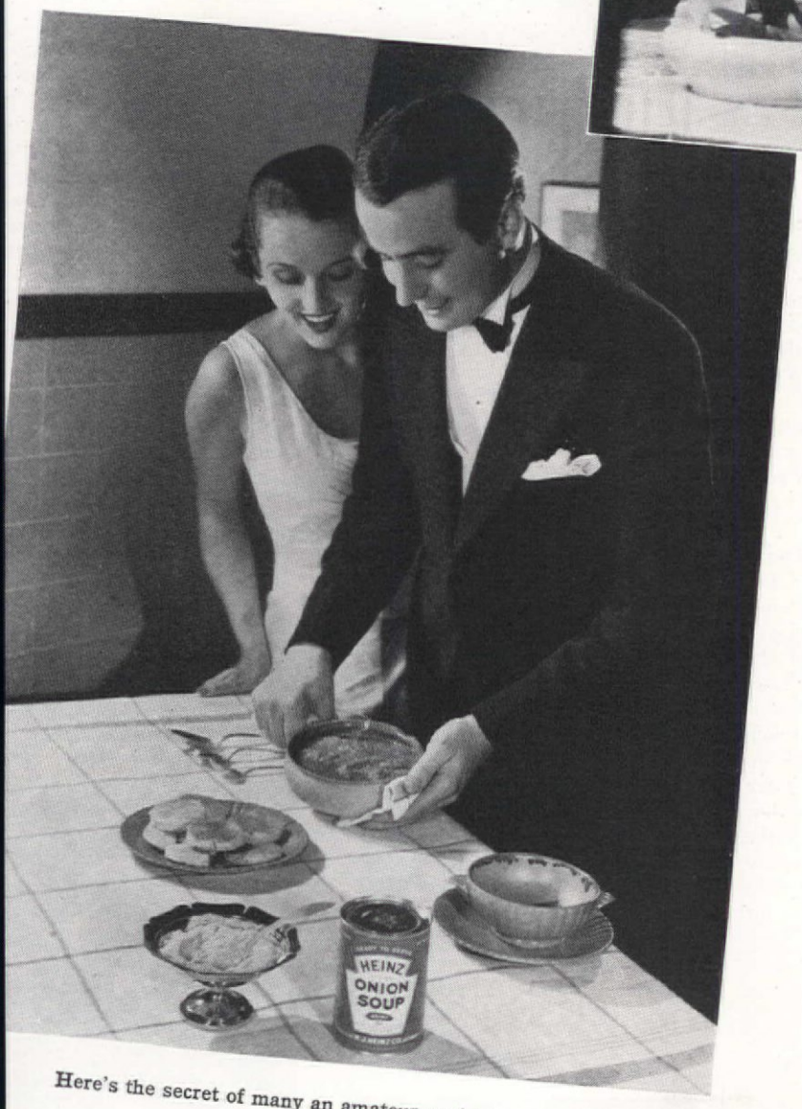
1 large watermelon
1 quart black raspberries
1 quart peaches
1 large fresh pineapple
6 lemons, quartered
6 limes, quartered

Cut watermelon in two lengthwise. With a wooden spoon remove all the fruit, pour off the juice, remove seeds, and cut the fruit in small slices. Wash and thoroughly dry the raspberries. Peel and slice the peaches. Peel and slice the pineapple and cut into strips. Fill the watermelon half shell with the fruit arranged in a pattern. Arrange quarters of lemon and lime alternately around edge of shell to make a scalloped edge. Serve ice cold.

Soup to make a dinner SING

uperior character of the ingredients used by Heinz in preparing home-style soups would amaze you! e vegetables; tomatoes grown from "pedigreed" ; cream richer than whipping cream; fine govern-inspected meats; the finest spices in the world! wonder that Heinz soups taste so good!

Many's the guest who refuses to believe his ears when the frank and honest hostess says of her delicious soup: "It's Heinz!"



Here's the secret of many an amateur cook's reputation!

IT DOESN'T make much difference how many are seated at your table—this rule holds good: *the best way to get a dinner away to a successful start is to serve a fine soup!*

That may sound trite, for goodness knows it's not a new axiom. But for a time it did seem as though soup was about to become "just a memory" in most American homes. That was because women weren't willing to spend the long, tedious hours of kitchen toil necessary to make a really good soup. And many people believed that prepared soups were simply "emergency rations".

Now, however, there's a revival of the soup custom abroad in the land, and a mighty fine thing it is, too. You can thank the House of Heinz for the re-establishment of soup popularity. For Heinz introduced "home" flavor to soups in tins—gave American housewives soup to make a dinner sing! Nowadays, your modern hostess simply opens a few cans of Heinz home-style soup and presto! —ready to heat and serve is soup as fine, as homelike in flavor, as the best soup she could make herself!

Of course it's necessary for Heinz cooks to use "home" methods to achieve the real "home" taste. So they cook their soups in small batches. When the recipe calls for slow simmering, they do it just as faithfully as you would. When stirring is indicated, they stir patiently. And the ingredients they use are much more costly than most women care to use for soup making!

So, keep this in mind: Heinz home-style soups (famous among the 57 Varieties) are just like the best soups you can make yourself, yet they require only heating before eating. And savory platefuls of Heinz soup, served steaming, will absolutely assure your dinner a successful start! Why don't you lay in a supply now? Your grocer is sure to have all 21 kinds.

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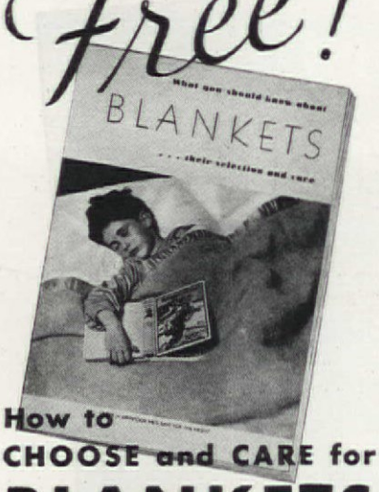

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How to tell live new wool . . . . Page 2
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Correct blanket sizes for different types of beds . . . . . Page 4
Correct blanket colors for your rooms . . . . . Page 5
Correct types for health and sleeping comfort . . . . . Page 6
Blankets for children's rooms Page 12
Gift suggestions for all occasions . . . . . Page 13
How to guard against moths . Page 14
How to wash blankets . . . . . Page 15

Read these comments from women who have received this book:

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Roses enter the pantry

SUSAN ROGERS HAYFORD

IN DELVING into old-time cookery, one is impressed by the number of recipes calling for rose or damask water, as it was often called; the old-time Damask Rose being the one preferably used for that purpose. This is the lovely, full-petaled Rose that is said to have been brought from the Orient by the Crusaders, and was a favorite in old-time gardens. It is exceedingly fragrant, and therefore adapted to the practical uses to which it was put. The Hundred-leaf or Cabbage Rose was another that found a place in most old gardens, and several recipes found in old books call for the "petals of the hundred-leaf Rose."

The proficient housewife of a hundred years ago had to be versatile as well as skilful, and some of the old beauty and cookery aids that were the pride of the housewife then, are worthy of use today. In those days, before synthetic flavorings, rose water or syrup was commonly used, its delicate and intriguing flavor adding much to cakes and various deserts. An old recipe, dated in the late 18th century, for "Rose Dew" follows:

ROSE DEW: "Take an earthen jar and in the bottom sprinkle a layer of pounded white sugar (granulated sugar), and over this a layer of rose petals, using those of the Damask Rose if they are to be had; continue doing this until the jar is filled. Several days can be taken until there are enough petals to make the desired amount. They should be gathered while the dew is fresh upon them, and before the sun has been shining too brightly upon them and so has wasted their sweetness. Cover the top of the jar with several thicknesses of brown paper and set away in a cool dark place to ripen. At the end of four months it is ready to use. The clear liquid which will have accumulated should be drained off and bottled."

This is very delicious for adding to custard and pumpkin pies, the delicate flavor of the rose combining very nicely with the s
After the syrup has been p
from the mass of petals, the
be broken into small pieces,
a bit on wax paper and use
confection. Rose flavoring is
for cakes and wafers, and
drops added to a glass of ice
is both refreshing and delica
flavor; the rose brandy is
cially good for frozen pud
and white fruit cake.

ROSE BRANDY: Fill a jar
rose petals and pour over the
pint of brandy. The next
drain the brandy from the p
being careful to extract it al
replace with fresh petals; r
this six times, then let it
undisturbed for two weeks
changing the petals, one is as
of a much stronger flavored
uct than otherwise.

CANDIED ROSE LEAVES:
easily prepared and make a
did after-dinner confection,
an old recipe book, written i
most exquisite handwriting
the property of a Colonial h
wife, famous for her skill i
household arts, gives direc
for making "flower-scented
ter" besides the rose petals
mentions sweet violets or "
fair-smelling flowers."

The butter is made by a
two drops of attar of roses
pound of fresh churned b
In modern usage the same ar
of the perfume blended with
ter that is not too heavily
(and blended well with a w
spatula or fork) is a nove
delightful spread for fru
cream cheese sandwiches,
use on toasted crackers
served with a fruit salad.

CANDIED ROSE PETALS:
one and a half pounds of fres
petals (they can be kept
twenty-four hours by putting
in a glass jar and keeping c
covered). Make a syrup o
and a half pounds of suga

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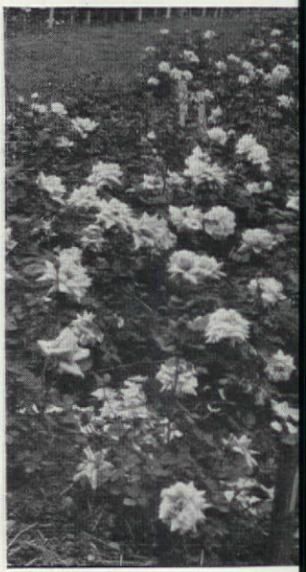

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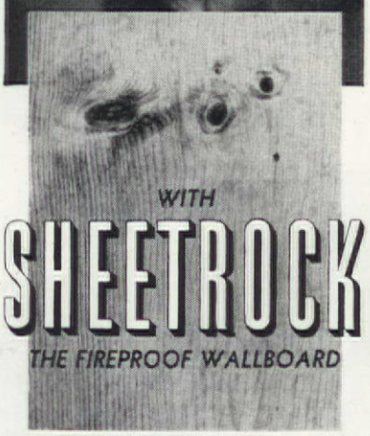

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FORMAL YET FRIENDLY this small com-nation living- and dining-room, 11 x 18 feet, owes much of its spacious charm a most happy selection of floor. The basket-weave design of this Armstrong's spé Linoleum seems to make the walls recede. Its soft tones suggested a color heme that is elegant yet easy to live with. Your own rooms can be helped by nilar color backgrounds—either specially designed as this one is, or selected om the many standard patterns in Armstrong's Linoleum. The way to get rted is to *see* the floors at local linoleum merchants. Learn first hand the ny comforting features of modern Armstrong's Linoleum—warmth, quietness, ringiness underfoot—and the simplest cleaning ease (a daily light dusting and casional surface freshening with Armstrong's self-polishing Linogloss Wax). ou'll also discover that very satisfying factor—a price you can afford!

Any time of day is a happy one in a room like this. Starting with the floor, it is color-schemed for friendliness, relaxation and comfort. This floor, by the way, is an individual design in Jaspé linoleum—Driftwood Gray No. 13 and Steel Gray No. 15—and illustrates the almost unlimited design possibilities of modern Armstrong's Linoleum. If you'd like complete specifications of this room, please write. They're free.

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TO HELP YOU decorate this fall we'd like to send "Floors That Keep Homes in Fashion." This 36-page book shows many different rooms in natural color. It also brings you a new and easy method for planning correct color schemes, and an offer of free decorating service. Just send 10¢ to cover mailing (40¢ outside U. S. A.). Armstrong Cork Products Company, Floor Division, 3609 Pine Street, Lancaster, Pennsylvania. (Makers of cork products since 1860)

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Every new home, whether you build it yourself or buy it, should have this *complete* conditioning system. It is the first and only engineered system of radiant heat and air conditioning, with every part designed to work perfectly and economically with every other part. What it has to offer you in Conditioned Comfort is the kind of home comfort you never dreamed possible. Indeed no new home is really modern without a new American Radiator Conditioning System.

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much they cost, how everything can be au
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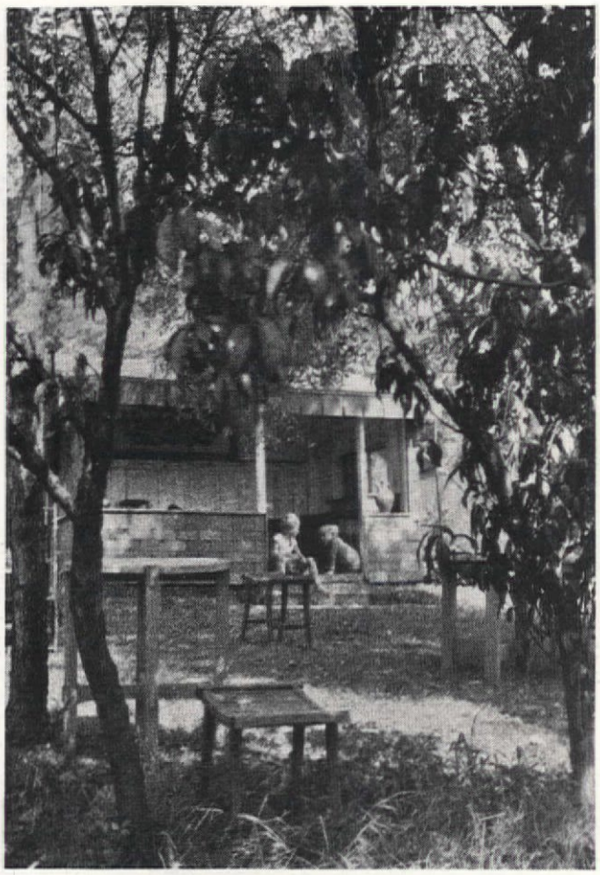


My Tea Coop

ANNA GOSS

NTIL the very day when the tenants moved into my old e, and I out of it, into the io which I had made from old barn—the Barngalow has ory all its own—I had not zed that I had rented the *len* as well as the house to n. I saw that I had not left elf a single woodsy nook re I might loaf and invite soul, as I had done in the ten of the old house.

he Barngalow is set in now-ltivated fields. My guest-n was once a haymow; a part ny large studio was formerly runway over which the hay ons were drawn. Up and down bit of flooring I paced that n morning when I knew I had myself garden-less. Arriving at arge sliding door in which we cut a Dutch, two-sectioned , I looked out the upper, open of this, and saw hanging be-n me and the still-wintry ntain, a haze of color, rose nst a background of char-se too lovely to describe.

hat rose was the bloom of h trees, and the greenish yel- color, that of new willow es. They made a waving pat- across the old gray of—a ken coop! In the years since ad given up chicken raising, I scarcely looked at the chicken . I had pushed some willow ds into the spring earth in e far-away years; and I had wn the refuse of peach canning to my Biddies, no doubt. And here, in my moment of need that bread cast upon the waters had come back—buttered! The group of trees and the little house were an oasis to a parched traveler; an *Isola Bella*—beautiful island, in my Sea of Depression! It gave me a perfectly grand idea.

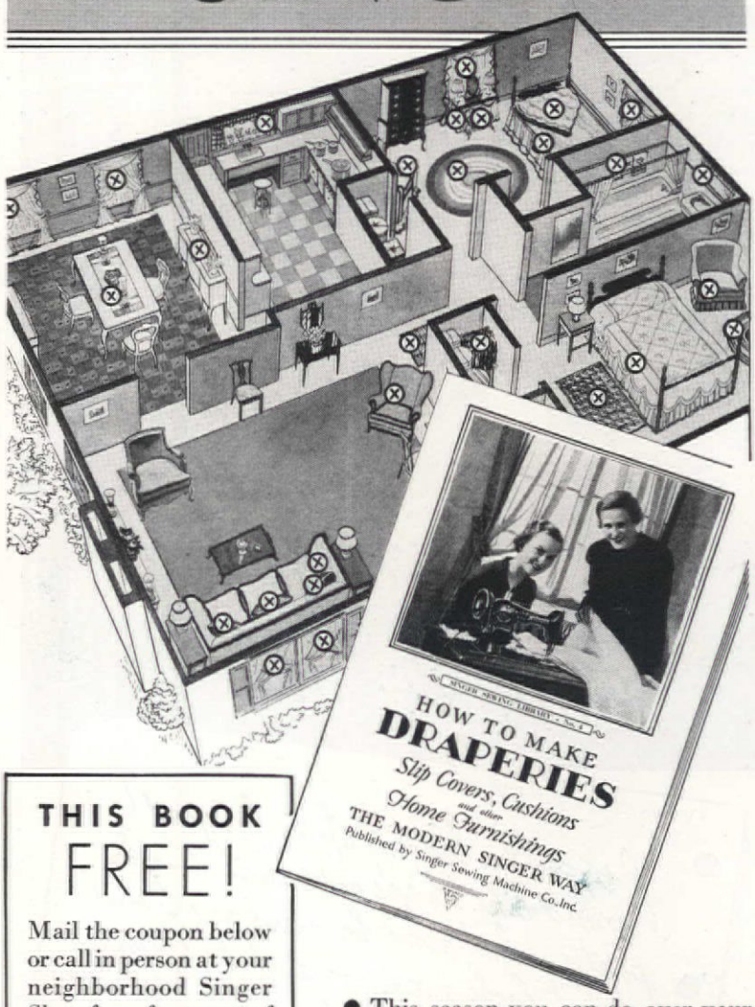
Well, what confirmed "remuddler" of houses *wouldn't* get an idea when she had for materials some beautiful, well-grown trees, and a building of any sort to begin on? Measuring stick, square-ruled paper, and pencil were soon at work. A friendly carpenter and a handy neighbor who was out of work made my plans come true with very little outlay. In fact to date my garden spot has cost me well under seventy-five dollars.

The chicken coop had a wire mesh window across the upper third of its front; a window on the west side and a door as well as a window in the east wall. We cut out the whole front, leaving only a balustrade and the two-by-four uprights as door posts. There is a shelf for flowers, or just to lean on, along the top of the balustrade. Batten awnings of wood are hung over each window. We closed up the door as it was no longer necessary. The west window we removed entirely, but left the sliding east window in place—to shut out chilly draughts, and still to be able to enjoy the view.

The earth floor of the coop had

[*Please turn to page 75*]

Marks the spots where you save with a SINGER



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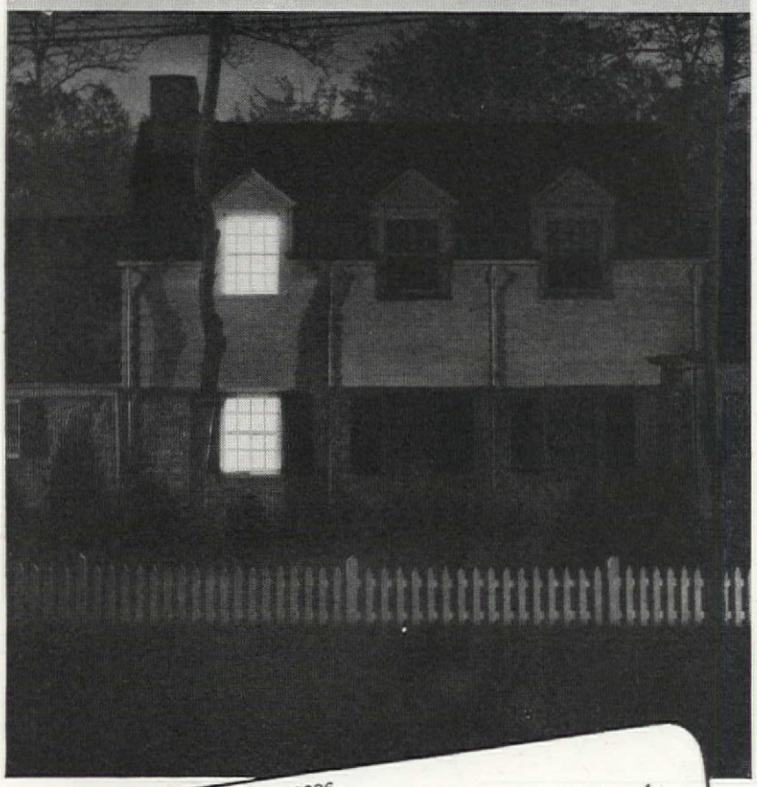
TROUBLE... at 22 Winterset Street



WEDNESDAY, JUNE 10, 1936

- I swear I'm leaving John for good! I worked like blazes over that dinner party — but now he says my linens didn't look nice — and he's sure the guests noticed.

THURSDAY, JUNE 11, 1936

- Can you beat it? Mother says my clothes do have that tattle-tale gray look. It's not my fault, she claims, but my soap doesn't wash perfectly clean. Guess I better take her advice and change to her pet soap.

MONDAY, JUNE 22, 1936

- Wh-e-e-e! Fels-Naptha did the trick. That grand golden soap is so packful of naptha it washes spic-and-span and John's as pleased as pie. From this day on, I'm telling the world —

BANISH "TATTLE-TALE GRAY" WITH FELS-NAPTHA SOAP!

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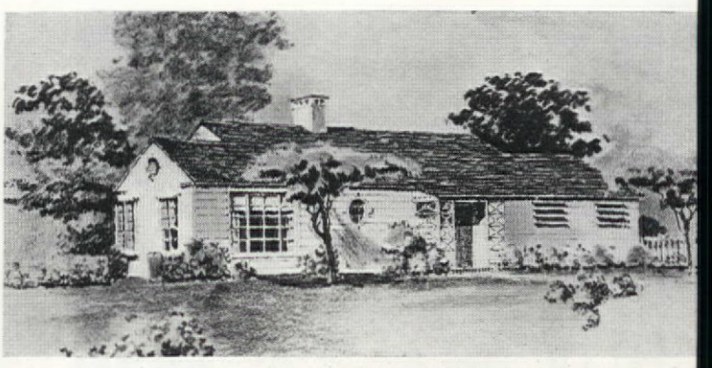
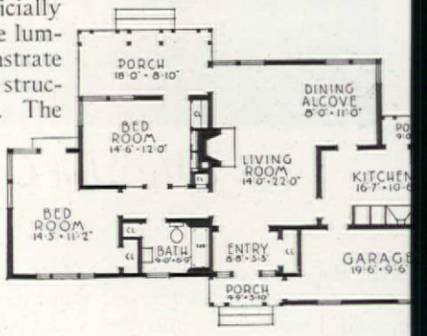


A model home at the Texas Centennial Exposition

THE all-Southern pine model home on the grounds of the Texas Centennial Exposition at Dallas is a five-room modern bungalow, featuring an attractive exterior and incorporating a unique application of Southern pine in interior finish. This model home is being built of officially grade-marked Southern pine lumber throughout to demonstrate Southern pine as an ideal structural and finish material. The home is considered distinctly modern in design and arrangement, attractive in appearance, and in the moderate-priced class of residences. Goodwin & Tatum, Dallas architects, have designed this home with the idea that it can be built almost anywhere in the United States at a cost ranging from $4,500 to $5,000.



Architects' drawing above, and floor plan of the All-Southern Pine Model Home on the grounds of the Texas Centennial Exposition at Dallas. Goodwin & Tatum were the architects

In addition to being built of officially grade-marked Southern pine, the Association's famous "fifteen cardinal points of correct frame construction" and approved methods of termite control are incorporated in its construction.

The over-all dimensions of the home are 37 x 59 feet. A feature of the design for this home is that it presents as attractive an appearance when viewed from the rear as from the front. Also this is a strictly "dry-built" house, meaning that no plaster is used on the interior walls and ceilings, all being covered with Southern pine boards—shiplap, V-jointed, or moulded-joint, or panels. The doors are slab, and laminated Southern pine. The prevailing interior decorative tone will be the bright, pleasing natural finish of the wood. The roof of the house will be covered with cypress shingles.

All the rooms are of good size for a small home and contain numerous built-in features and provisions for all modern con iences. The finished floors i the rooms, excepting the kit and bath, are of B & Btr. grain Southern pine. The kit floor, covered with linoleum flat-grain Southern pine, and bathroom floor is of tile.

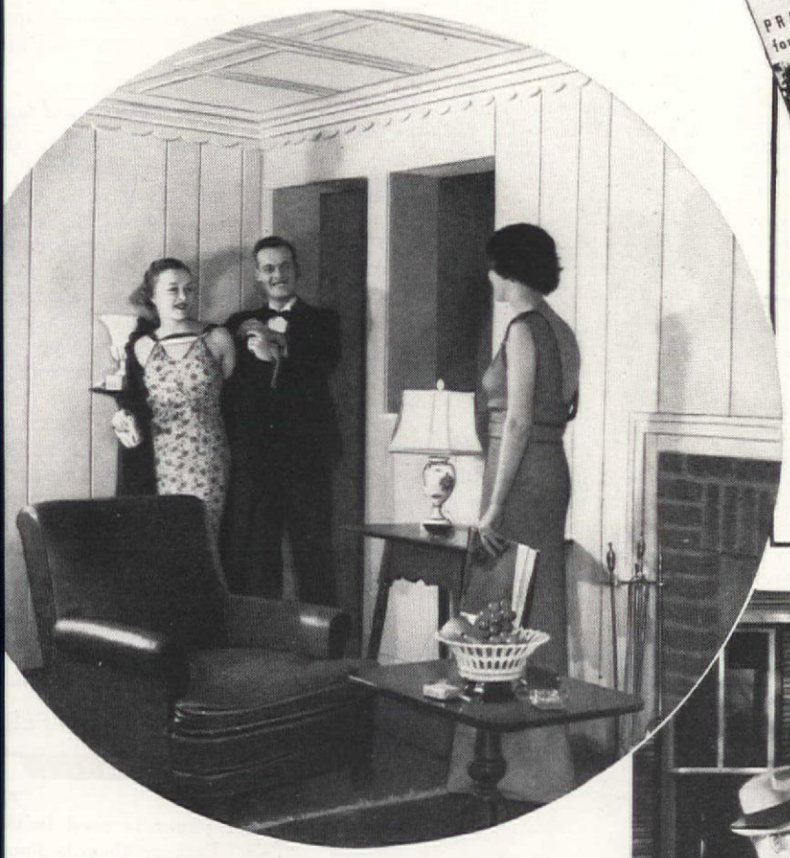
The front entry located i center of the long-side of home has a handy coat c and is finished in knotty Sout pine boards. A commodious ing room, 14 x 22 feet, has a viting fireplace in the cente the left-hand side and the are covered with wide boards laid horizontally an natural finish. A dining alco x 11 feet, is located off the l room on the right-hand side, the finish and decorative sc are the same as in the main ing room. Doors open from living room into the kitche the hall leading to bedrooms bath, and onto the lattice p

The master bedroom is 1 14½ feet, with an alcove a rear 5½ x 8½ feet, which onto a small latticed portico. walls of this bedroom are co with moulded-joint pine bo 7-inch and 11½ inch widths, vertically, with a lower c about three feet high of V- boards laid horizontally. The ing is of V-joint shiplap. The ond bedroom is 12 x 14½ and opens at the rear onto handsome big lattice porch is 9 feet wide by 18 feet long. walls of this bedroom also a pine boards, but then co with paper on canvas backi

An inviting and conve

[Please turn to pa

The very Latest Ideas to make your home *charming-comfortable-modern*



● Who'd believe this charming room was once a none-too-clean corner of the cellar? The miracle was effected with J-M Insulating Board Bevel Plank, J-M Decorative Ceiling Tile, J-M Asphalt Tile Flooring—*and most economically.*

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You build for a lifetime. Be sure you build wisely. Get *all* the information you can. This *free* book covers the subject thoroughly, from financing to construction, with full information on J-M materials.

HERE ARE PICTURES of a house twelve years old—made "new." All the result of the latest ideas, a new point of view—and Johns-Manville Building Materials.

The shabby exterior walls have been covered with handsome asbestos siding shingles that will never require paint. The dingy bathroom has been re-surfaced with "tile-like" asbestos wainscoting. Insulation helps keep rooms always comfortable; fuel bills *low*. And the new asbestos-shingle roof is fireproof, everlasting.

Interested? Send for the latest edition of the Johns-Manville "101 Suggestions Book"—an invaluable aid to home modernizers.

Planning a *new* home? And wondering about financing, services of an architect, what type of home, kind of construction and materials? . . . Send for the "40 Points Book." And be sure to read the section on "Triple-Insulation"—the new J-M building principle that protects against fire, weather, wear.

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J-M Home Insulation in "batts" for new houses or "blown" in walls of existing homes. Keeps rooms up to 15° cooler in summer, cuts winter fuel bills up to 30%.

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Name_____

Address_____

Dollar Ideas

NOTE: We are desirous of publishing the useful dollar ideas submitted by readers just as quickly as space will permit. But, due to the great number on hand, we must request that no more ideas be submitted until the supply has been used up, when we shall publish a request for more. We cannot enter into correspondence regarding material submitted, nor can we return any rejected copy.

Casters for the fernery

If you find it difficult to take your fernery outside on sunny days, why not put casters on it? You'll find that you can roll it from one place to another with the greatest of ease. MRS. E. F. NELSON, Little Rock, Arkansas.

An immediate drink

Ever since I found at a ten-cent store a green tin wastebasket, with a rigid staple-shaped handle of strip tin which stands hand-high, I have not been able to garden without it. It is quite light enough to fill with water and put in the garden path to hold the flowers as they are cut. Fresh-cut flowers last much better if given an immediate drink, and the garden harvest can be carried in and set aside, pail and all, till you want to arrange the flowers in their vases. Then I carry the pailful right into the room, set it on a newspaper and fill the vases in place. Such a "basket" is useful, too, where there are potted plants. Stand the pot in the pail of water for half an hour and let it soak thoroughly. DARE STARK, New Canaan, Conn.

Fingernails and gardening

Not long ago a reader suggested drawing one's fingernails over soap if a dirty job was to be done in order to save cleaning and bleaching the nails afterward. This is all right for short-time jobs around the house, but for gardening I have found it is much better to dampen the hands and then thrust them in flour. This hardens under the nails and around the cuticle, washes out easily, and is softening to the skin. MRS. JOY HERRMAN, Klamath Falls, Oregon.

Train them with hairpins

To train potted vines to grow downward over the edge of the pot or to keep them untangled as they grow, plunge the extra long invisible hairpins over the vines at the base of the stem near the soil, and they will heed this gentle means of persuasion, growing as you wish them to. MRS. T. L. BOWER, Chicago, Illinois.

Anchor the flower pots

If you wish to keep flower pots from toppling off or being pushed off porch railings—here's a tip. All flower pots are made with a hole in the bottom. Drive a blind-headed nail, three or four inches long into the top of the rail and set your flower pot over it. No fear now of strong winds or careless passers-by. MISS MINNIE KROUSE, Brussels, Illinois.

Garden gloves

When using rubber gloves you will probably find that the right-hand glove always wears out more quickly. Instead of throwing the pair away, turn them inside out. The left glove, which is less worn, then fits the right hand, and the right glove the left hand, thereby making the pair last considerably longer. DAGMAR HAMMOND, New York City, N. Y.

Before heating milk

Have saved both time and temper when heating milk by the simple trick of rinsing kettle or pan first with cold water. The heated milk will not then adhere to the utensil. MRS. S. F. WALTON, Anna, Illinois.

A magazine rack for music

I have discovered that a magazine rack makes a good place in which to keep sheet music. I use one that stands on the floor and has a handle by which I can move it near the piano when needed. The sections in it make it possib keep the music separate groups, making it easy to fi desired piece. S. M. SCHOOL Williamsport, Pa.

Garden table

Any large, fairly deep w basket can be made into a spl garden table by the addition circular wooden top—painted bright weather-proof ena Notch cover at sides to perm handles of the basket to through, so that you can mov table about. Garden tools ca stored in its capacious int MISS FRANCES LICHTEN, Phi phia, Pa.

A new rug from old hat

Have you a box of old, ou date felt hats tucked away where? If you have saved they furnish grand material crocheted rug. Cut the brim the crown, and then begin cu a narrow strip from the edge crown. Continue cutting in fashion until the top is rea The hat is now in one long To add the next string of merely sew ends together. Us large wooden crochet hook will need about fourteen hat cluding brims) to make an rug approximately thirty long and twenty-four in w MRS. FRANCIS E. GLEASON, cinnati, Ohio.

Send $1.00 FOR THIS BIG BARGAIN

The 450 PACKAGE

300 NOTE SHEETS
150 ENVELOPES

Printed with Your Name and Address

PEOPLE from all over the world send to Peru, Indiana, for this famous note paper. It is correct for all manner of everyday notes and letters—properly serving 90% of all your writing needs. Each sheet and envelope is neatly printed with your name and address—the smart and logical way to have your stationery finished. Try a package. Send $1.00 (west of Denver, Colo., and outside of U. S., $1.10). ***Satisfaction guaranteed or your money promptly refunded.***

THE AMERICAN STATIONERY CO.
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FINE RAG CONTENT PAPER

Finer paper is used in th "450" Package than is foun in many boxes of high price stationery. It is a paper mad for the pen. It doesn't "blot it doesn't "scratch." It is pur white, ***rag content bond pa per***—and the best papers a made from rag!

GOING AWAY TO SCHOOL?

For years, American Printed Stationery has been a favorite among college men and women. If you're getting ready for school, order your "450" Package now, while you think of it. All packages are printed and mailed within 3 days of receipt of order.

They live on a newlyweds' budget

...but they can afford a movie record of their life together

"TWO can live as cheaply as one"—that is the principle behind their budget. *Expenses*—figured closely... *Extravagances*—none. But they will tell you it is worth it to be together.

Yet, economizing as they are—they can afford to make a movie record of their life together. A new type of camera and film makes it possible.

•

CINÉ-KODAK EIGHT was designed for a single purpose...to bring home movies to people of limited incomes. It is the camera you have hoped for...Now exciting action records cost only a few cents each. And they are as easy to make as snapshots.

See the Eight and the fine pictures it makes. Discover its economy at your dealer's today.

Now gorgeous full-color Kodachrome for Ciné-Kodak Eight

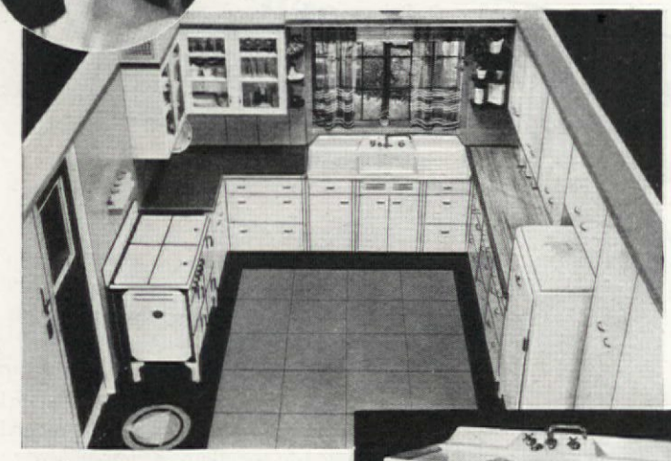
Just load your Eight with Kodachrome, and "shoot." Color movies are as easy to make as black-and-white. No extra equipment is needed for all ordinary shots. The color is in the film . . . Eastman Kodak Co., Rochester, N. Y.

THIS NEW-TYPE CAMERA . . . its special film... together they're the answer to home movies at moderate cost. A twenty-five foot roll of Ciné-Kodak Eight Film runs as long on the screen as 100 feet of amateur standard home movie film. The Eight makes 20 to 30 black-and-white movie "shots"—each as long as the average scene in the newsreels—on a roll of film costing $2.25, *finished, ready to show.* Ciné-Kodak Eight is small, sturdy—costs but $34.50.

Ciné-Kodak Eight... *home movies at less than 10¢ a "shot"*

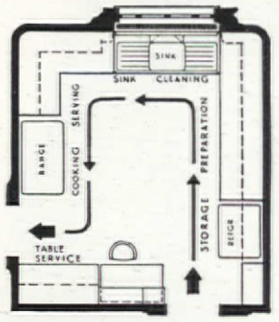
How Many Steps Make a Meal?

"I Used to Walk 5 Times As Far To Get a Meal Before I Got My New Crane Kitchen"



A Crane Scientific Kitchen. Note how every kitchen activity can be carried on without a wasted step.

The SUNNYDAY SINK—The Heart of the Crane Scientific Kitchen



Floor-plan of the Crane Scientific Kitchen pictured above. Similar step-saving efficiency can be given to kitchens of many sizes and shapes.

●When scientific planning comes into your kitchen, work flies out the window. Crane Scientifically Planned Kitchens can save as many as four steps out of every five.

You can see for yourself in this picture how everything is grouped around the sink to save you needless steps.

In fact, a Crane SUNNYDAY Cabinet Sink is your first step towards lighter, brighter, easier hours in your kitchen.

The SUNNYDAY Sink—acid-resisting porcelain on cast iron—has out-of-the-way faucets, swinging spout, cup strainer, rinsing and vegetable spray, stemware drying ledge and depressed drainboards. Fixtures are heavily chromium plated.

The cabinet—of heavily baked enameled steel—has vegetable and bakery goods storage compartments, cutlery drawer and generous accommodations for utensils and supplies. Doors and drawers are rigid, non-warping, smooth acting and sound deadened.

Mail the coupon today for complete descriptive matter and data sheets to help you plan your kitchen. Crane Scientific Kitchens are available on convenient terms from your master plumber.

CRANE

CRANE CO., GENERAL OFFICES: 836 S. MICHIGAN AVENUE, CHICAGO, ILLINOIS
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Gentlemen: Please send, free and without obligation, illustrated literature on the subjects I have checked: ☐ Scientific Kitchen Planning; ☐ Bathroom; ☐ Heating System; ☐ I contemplate building a new home; ☐ Modernizing present home.

NAME.....

ADDRESS.....

CITY..... STATE.....

Replenish your autumn service

Pacific Clay Products

Colorful fringed mats, pottery in a combination of colors, and a centerpiece made up of bright gourds and vegetables

Three services designed by V Schreckengost for the Ame Limoges China Co. Top, "M Classic" in gray and white; c "Red Sails" in red and bla

ADD to the gaiety of autumn meals with the gaiety of new table service! The table below was designed for Sunday night buffet supper by Bloomingdale's. The one at the top is a provincial table, and in between are three designs in chinaware for a rather formal service, an amusing table in the cottage, and a colorful meal anywhere in the country, respectively.

ivory; bottom, "Fiesta" in brown with red and tan

Akron

"New American" is a home designed from the inside out. Its exterior may be any architectural style you wish, Georgian, French or English Colonial, Modern, as you please! A "New American" Home is G-E Equipped.

OU CAN OWN A "New American" Home

FOR WHAT YOU PAY IN RENT

WHY go on dreaming of the home you *hope* to n! You can have it NOW—signed in the style you want, th rooms planned to suit your rsonal needs, and completely ctric-equipped.

Today you can own a "New herican" Home for what you y in rent, and live in a com- t and ease you never thought ssible.

"New American" Home her- s a new concept in living. It mbines attractive dwellings h the economies and con- iences made possible by science and invention. A "New American" Home is planned from the inside out—it eliminates waste space and corners, affords the maximum room area light and air. A "New American" Home is completely General Electric equipped for smooth operation, the saving of labor and strength, the reduction of up-keep and operating costs.

Somewhere in your neighborhood there will be a General Electric sponsored "New American" Home. Compare its cost with what you pay in yearly rent. Facts and figures prove you get more for your money when you buy and build "New American".

General Electric suggests you consult your architect or builder for plans of your "New American" Home. The General Electric Home Bureau, at 570 Lexington Avenue, N. Y. City, will gladly advise on all matters of home electrification. Write for free illustrated "New American" Home folder.

Radial Wiring provides ample outlets tifically placed for better light and r sight.

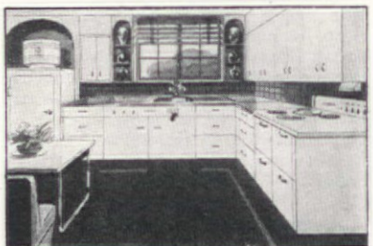
"NEW AMERICAN" Means

1. *Better planned room arrangement*
2. *Maximum wall space*
3. *Ample terraces*
4. *Better light and air*
5. *G-E Automatic Heat and Air Conditioning*
6. *G-E Kitchens*
7. *G-E Laundries*
8. *G-E radial wiring*
9. *Quality materials*
10. *Sound construction*
11. *Utility-recreation rooms*

If it's G-E equipped it's "New American"

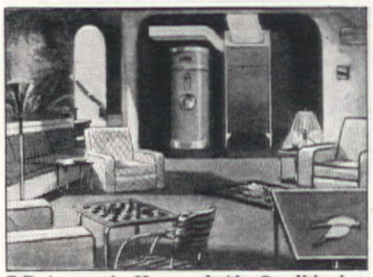
GENERAL ELECTRIC

RESEARCH KEEPS GENERAL ELECTRIC YEARS AHEAD!



G-E Kitchen with refrigerator, dishwasher, Disposall waste unit, and electric range, saves time, labor and strength.

A G-E Laundry gives you electric servants that turn out perfect work every time.



G-E Automatic Heat and Air Conditioning keeps your home the temperature you want, all year 'round.

★ "Restfulness" is, perhaps, the most magic of human qualities — and it can only be achieved by those who are properly and adequately RESTED.

The place to rest is in bed — but millions of people have yet to learn that a night of twisting, tossing, unrelaxed sleep is NOT true repose.

The sweet peace of properly relaxed sleep is nature's greatest therapeutic agent. Enjoy it yourself, through the extraordinary comfort features which no other mattress can give you — features which have made Spring-Air the choice of the finest homes, greatest hotels, and health institutions of America.

YOUR GUARANTEE

GENUINE KARR SPRING CONSTRUCTION GUARANTEED BY CHARLES KARR COMPANY

A vital part of the Spring-Air mattress is its KARR Spring Construction — famous for its **Graduated Resiliency** — enduring, noiseless, elastic, conforming perfectly to your body. Ask for your Karr Construction GUARANTEE when you purchase. It's your assurance of truly healthful slumber.

Spring-Air Mattresses are made in several Innerspring Models and in the Easy-to-Handle Sleep Cushion Style — either Tufted or Tuftless. Box Springs to match. Attractive range of prices.

SPRING-AIR, *General Offices:* HOLLAND, MICHIGAN

★ 44 MODERN FACTORIES—COAST TO COAST SOLD by the BEST STORES EVERYWHERE ★

Spring-Air product standards are specified and, through inspection, maintained by the licensor, Charles Karr Company, Holland, Michigan, manufacturer of the spring elements used in completed Spring-Air products.

IF YOU'D WAKE WITHOUT A CARE DO YOUR SLEEPING ON SPRING-AIR

Send coupon for free booklet which tells why!

SPRING-AIR, Dept. B, HOLLAND, MICHIGAN

Please send me the free booklet which tells how I can get that "HAPPY Spring-Air Look."

Name_____

Street_____

City_____

For Nothing

—and worth everything!

THE Editor's mailbag, as everyone knows, is a very full one, and we often wish our entire readership could be here when it is opened. It is crammed full of interesting and valuable news and information which we pass on to you as fast as we can. Often we are advised that our readers too may receive this news direct, if they will just ask for it, and so we are listing a number of booklets which impressed us so much that we know you will want to see and study them.

"Planning for Sterling" is the name of a new booklet, which describes how to acquire your complete service of solid silver intelligently. It is a twelve-point plan, based on the idea of making purchases in twelve steps, each time acquiring enough pieces of matched sterling for some definite form of entertaining. It starts off with eight teaspoons. And it's something of a surprise to realize that these pieces not only will permit you to serve afternoon tea charmingly, but also refreshments following informal bridge, or Sunday night supper for four. The booklet even suggests menus which will involve the use of just this much silver, and when step number three and four have been reached, it shows in diagram form just how silver, china, and glass should be arranged at the individual place. In addition, photographs of very simple but charming table settings are shown. And you can study the different patterns and their prices and plan your own sterling campaign! The International Silver Company at Wallingford, Connecticut, will send you the book if you ask for it.

"The Cellar Reborn" is another very complete booklet available to our readers for the asking. If you are considering salvaging waste space in your cellar to house your favorite collection, to re-make into useful space for laundry or sewing room or garden tools, or to dress up for games and rumpus generally for grown-ups or children, be sure to study this boo contains no end of photograp "before and after" cellars, scaled diagrams of constru and arrangement and indiv costs. There is a very val page of specifications, descr the right kind of paint for u cellars, the best cabinet mat how to treat walls and cei and like information. You have this by writing to the A ican Radiator Company, 40 40th Street, New York.

"The Charm of a Well-Li Home" starts out just as we w have it, with a prayer that *plan* the lighting of your h and not just let it be an acci The planning, of course must from the very start; if yo building a new house, in the ing and placing of outlets; i are remodeling, in assuring self of all the additional o you will ever want. After al lighting equipment must be able and decorative in desig must give adequate light; a should serve to accentuate charm of all your furnishings many illustrations are divide cording to rooms; fixtures fo living room, for the dining r for bedroom and bath, and s The book will crystallize idea may already have, and furnish with a lot of entirely new Write to Lightolier, 11 East Street, for the lighting book

"It looks too beautiful for a place to cook in"

Stays Beautiful

Easy to Wash

"WE chose a gay, lively pattern" for the kitchen, says this enthusiastic Wall-Tex user. And why not? Why not have lively, beautiful walls in the kitchen — when you can have all the modern practical features, too?

What if grease does spatter — or dish water splashes—your Wall-Texed walls? They're easily washed clean. Stubborn spots removed — quickly, safely and completely with soap and water! One user writes, "We wash our Wall-Texed kitchen four times a year and after each washing it looks fresh and new." Many washings — but no harm to beautiful Wall-Tex colors. Long, economical service.

Thru the years this strong, sturdy fabric, painted with time-resisting colors, has built a reputation for dependable washability. And we have plenty of proof that it strengthens walls and prevents plaster cracks. It's tough. It's durable. Stays beautiful, eliminates frequent redecorating.

Over 200 distinctive new Wall-Tex designs. See their beauty — feel these durable fabrics — at your Wall-Tex decorator's or dealer's.

WALL-TEX

the *honestly washable* wall covering

Mail the coupon for colorful portfolio of Wall-Texed rooms and free Wall-Tex swatches

COLUMBUS COATED FABRICS CORP
Dept. A96, Columbus, Ohio.

Send me Wall-Tex portfolio with color illustrations, including Wall-Tex swatches.

Name_____

Address_____

City and State_____

For free samples of BONTEX Washable Window Shades and LINTEX Stainless Table Cloths, check here . . . ☐

A model home

[*Continued from page 64*]

kitchen measures 10½ x 16½ and has openings into the room, dining alcove, and o small service porch at the The walls are covered with boards and panels. The bath has a tile floor and the wal covered with panels of lami pine and decorative materi

There are ample closets in bedroom and in the hall, plenty of shelves and shoe and a linen closet in the room, in addition to a coat in the entry. The numerous windows and doors insure p of sunlight and excellent ve tion throughout all the roo

The garage, built as part home in the "L" formed b kitchen and front entry, i feet wide by 19½ feet Louvered windows in the form an agreeable break in otherwise would be a monot flat wall.

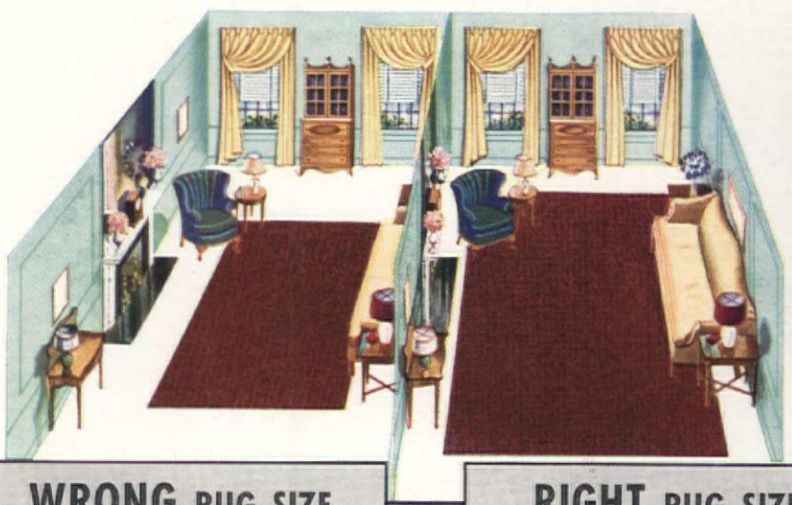
This model home is furn and open for the informatio convenience of visitors to t position, and is used as a quarters for visiting lumb and their families, with a ants to explain all the deta the construction and use Southern pine to those who be interested in such inform

Introducing
FLOOR-PLAN RUGS

Now you can get rugs
THAT REALLY FIT YOUR FLOORS
WITHOUT PAYING CUSTOM PRICES

Especially sized to leave 6 to 24 inches between rug and wall, as advocated by leading decorators. Choice of 30 sizes in plain colors, textured effects and figured patterns.

No matter how beautiful your rug, it won't look well if it doesn't fit your floor. And now there's no necessity of getting a misfit rug. Floor-Plan Rugs, in thirty carefully selected sizes, solve the size problem. These are all-wool, seamless rugs, woven in Tru-Tone colors that retain their beauty in all lights. Never before has such a range of rug sizes been offered at such reasonable prices. At leading stores everywhere. Alexander Smith Division, W. & J. Sloane Wholesale, 285 Fifth Avenue, New York.



WRONG RUG SIZE

Rug is too small. Looks lost in middle of floor. Yet this is what you will find in many homes because until now it has been almost impossible to buy moderate-priced rugs that *really fit* a floor.

RIGHT RUG SIZE

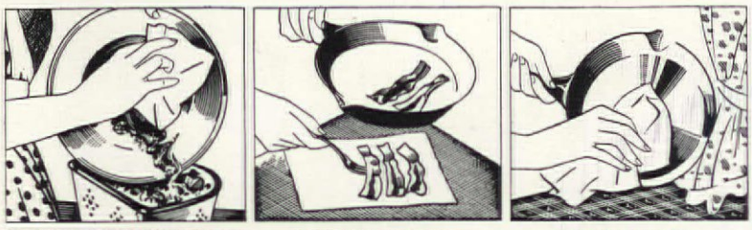
Floor-Plan Rug in same room. Dimensions of room are 13x21. Rug is 10'6x 18, leaving approximately 18 inches of bare floor. Your eye tells you at a glance that the proportions are pleasing, and floor margin correct.

ASK FOR

Alexander Smith Floor-Plan *Rugs*

"NEARLY RIGHT" WON'T DO

REACH FOR A SCOTTOWEL..



CLEANING SERVING DISHES | DRAINING BACON | WIPING PANS

They cost less than washing kitchen towels!

These clean, fresh ScotTowels are ready when you need them . . .

EVERYWHERE housewives are finding that these neat, white tissue towels save work and money, too!

When you have a greasy pan to wipe . . . the stove to clean . . . or something spills, reach for a ScotTtowel. Soft and absorbent, it does the job in a jiffy . . . saves your good cloth towels. And there's no bother in washing them afterward.

2 big rolls of ScotTowels (150 towels on each roll) cost but 25¢. Actually, that's only a penny a dozen . . . much less than it costs to send your kitchen towels to the laundry.

Put a roll of these tissue towels in your kitchen today. See for yourself how many messy household tasks they make easier. On sale at grocery, drug or department stores. Or write Scott Paper Co., Chester, Pa.

150 TOWELS PER ROLL

INTRODUCTORY OFFER

SCOTT PAPER COMPANY, CHESTER, PA.

If your dealer does not sell ScotTowels, send us 50¢ (money or stamps) and you will receive postage paid—

2 ROLLS OF SCOTTOWELS & 1 ENAMELED FIXTURE or SEND $1.00 FOR 6 ROLLS AND ONE FIXTURE

Check color of fixture desired: ☐ ivory ☐ pale green

Name_____

Address_____

Dealer's Name and Address_____ AH-9-36

[This offer applies only to the U.S., its insular possessions and Canada]

A maid in for the party

[*Continued from page 51*]

When you are explaining things for the first time, it is a good idea to set the table with your maid and then to sit down and let her serve you and an empty place an imaginary dinner. This gives you full opportunity to answer any questions about things which she doesn't understand and to point out any mistakes she makes. Of course it is easier to do this when you are teaching her to wait on table but it is helpful even in teaching so simple a thing as service at tea or cocktails where practically all she will need to do is pass things to the guests and to keep the food trays filled.

And now specific instructions about the party itself. As I mentioned before, detailed directions will depend upon the kind of party you are having, but make them complete in any case. Plan your menu first. Then plan every detail of service: not alone order of serving, but dishes to be used and all accessories. Set your table and lay out everything beforehand, preferably with your maid. Then give her your written instructions, which she can use as a reminder while she is serving.

It is best to put instructions as to china, silver, and other needed articles on the sheet with the menu so that everything is together and easy to follow. Menu and directions for a dinner party might appear something like this:

CLEAR TOMATO SOUP
Serve in white rimmed soup plates. Place on place plates.

CROUTONS
Pass in silver bowl with pierced edge. Remove place plates and soup plates and replace with flowered dinner plates.

BAKED HAM WITH PINEAPPLE
Pass on large silver platter. Large fork and spoon serving set.

GLAZED SWEET POTATOES
Pass in silver vegetable dish. Serving fork and spoon.

BROCCOLI WITH HOLLANDAISE
Pass on small silver platter. Serving fork and spoon. Replace dinner plates with cream colored salad plates.

MIXED GREEN SALAD WITH FRENCH DRESSING
Pass in wooden salad bowl. Wooden salad fork and spoon. Clear table entirely except for glasses and centerpiece. Remove crumbs from table.

Bring in gold and white dessert plates with finger bowls, doilies, and dessert forks and spoons. Finger bowl service is ready on sideboard.

MINT ICE CREAM WITH CHOCOLATE SAUCE
Pass ice cream on silver platter with two serving pieces. Pass chocolate sauce in silver bowl on silver plate. Be sure to silver ladle accompany it.

COFFEE
Serve in living room. Fill c pot and bring in tray which ready arranged and place on before Mrs. Doe. Pass coffee

Directions for a tea or coc party would differ in everyt except completeness. The in tant thing to remember is to nothing to chance. Explain ex how you wish each thing And write it down.

Does all this seem like a l extra trouble? It really isn't you will be amply repaid your party is a great suc when, knowing that everythi well taken care of and every tingency planned for, you fee a guest at your own party. all, the unworried hostess is most charming hostess.

How much does air conditioning cost?

[*Continued from page 35*]

reason is that the people o country are giving more co eration to the interior living fort of their homes. Still an reason is that the medical p sion has proved that air c tioning of one form or an in the home during the w heating season is beneficia health. Certainly the questi air conditioning is one should be seriously gone int fore building a new house modeling an old one. Your tect is the best man to co He has nothing to sell, and give you an honest opinion whether its cost is justified in particular case, and advise as to how much or how litt conditioning you need for co in your particular climate.

If you are considering air ditioning for a house al built, any reliable local he contractor will jump at th portunity to estimate—and out obligation to you. And, not even a "rough figure" c given without actual knowled each house, this is the only you will ever know exactly air conditioning will cost for house. Bear in mind, how that most contractors either an exclusive agency for one facturer's product or prono preferences. Air conditioning not be seen in its entirety a sees a new car. Therefore, advice of an architect is not able, it behooves the home to clip coupons and go into found huddle with himself the literature arrives. The t of air conditioning and the formance of each type is n unintelligible and compl science most people think it

Stringbeans cooked in half the time!

Slice beans in very thin slivers. Pour gradually into fast-boiling water—just enough to cover. Turn heat down to slow boil and *keep it there*, so the beans will not boil dry. In half the usual time (often less than 20 minutes) the beans will be done. It is the many adjustments of flexible gas heat that make this speed-cooking possible!

Modern Gas Cookery

saves time—saves vitamins—saves flavor

Gas cooks foods faster, better, cheaper—gives silent, simplified refrigeration—provides unlimited hot water—heats your home with least dirt, least bother.

TODAY modern gas ranges do more than save your time. They make it possible for you to cook more delicious and healthful dishes as well.

Fast, vitamin-saving cooking of vegetables, for instance, depends on using the least amount of water—and keeping your heat so low that this water will not boil away. Gas, of course, is the one fuel that gives you instantly just the shade of heat you want for this modern method. Many of the new gas ranges are equipped with "simmer burners" that make it still easier.

Oven cooking, too, with these new gas ranges gives better tasting foods at a saving in time and cost. For automatic heat control makes baking failures almost impossible. Insulation enables you to do 15-20% more cooking with the same amount of gas. The high-speed grill seals more flavor in the meat—broils in about half the time.

Why not stop in at your Gas Company showroom and see the many new features of these modern gas ranges for yourself?

FREE RECIPE BOOK!

101 recipes and speed menus made possible by Modern Controlled Cooking with Gas. Complete time-table directions for every dish. New ways of saving money in cooking. Write the American Gas Association, Dept. A1, 420 Lexington Avenue, New York City, for your copy.

s nothing GAS for

BROILING

Gas gives you the intense heat needed to brown meats so fast that loss of juices is prevented. Full flavor is saved.

ROASTING

Gas gives you the oven ventilation which produces crisp, juicy roasts. Excess moisture is allowed to escape, preventing that flat "steamed flavor."

BAKING

Baking requires even heat throughout the oven and unlimited range of baking temperatures—for light, evenly browned cakes, pies, etc. Gas gives both!

FRYING

Perfect, speedy frying requires instant high heat—even spread of heat under the skillet—numberless heat variations. Gas gives all three!

BOILING

Faster! Gas brings foods to a boil in ⅔ the time or less of other fuels. More flexible, it gives you the exact shades of heat you need.

D E R N I Z E Y O U R H O M E W I T H G A S

THIS SEAL SHOWS THAT YOU'RE GETTING A PROCESSED CLO
WINDOW SHADE . . . SOMETHING WORTH LOOKING FOR AND FINDIN

MADE BY A MEMBER OF THE WINDOW SHADE INSTITUTE
Genuine CLOTH Window Shade

. . . "now they look Right—with the new

THE prettiest curtains you ever put up will look still nicer over clean new shades. Especially if you use the shades themselves as part of the curtain-drapery ensemble. Decorators, for instance, will pick up a tone of soft green or sand in the drapes and choose window shades to blend. Or they'll match the cream or linen color of the glass curtains. You can get these new effects at comparatively little cost by using processed cloth shades. They're woven on a loom, processed and colored to make them subtle in tone and softening to light. Cloth shades last longer too . . . a better buy than any of the substitutes. Just mention in department stores or to any window shade dealer that you want a processed cloth shade . . . get your money's worth at every window. This advertisement sponsored by The Window Shade Institute, 500 Fifth Avenue, New York.

Tea Coop

inued from page 631

ded lodging for sundry wild
ds suspected of being skunks.
ook the precaution of placing
phur candle in their runway
blocking up all but one exit.
we collected flat stones and
home-made flag floor in rust-
d cement. The next morning
er of our floor had evidently
in over the runways, but on
examination we found that
id animal must have made
ay out through our cement
That made a lot of extra
But from this supplementary
of mortar, we made a seat
foot of one of the groups of
vs—just an eight-inch plat-
conforming to the tree roots,
utilizing their trunks as a
With yellow oilcloth cush-
his makes a lovely dreaming
and commands an enchant-
ew of the landscape.

next step was to whitewash
hole interior of the Tea Coop,
ad now come quite naturally
called. This order of pro-
was a mistake as you will
ater on in my story.

the outside we applied slate-
ed building paper, as the old
s would simply drink paint,
wooden sheathing would
been too expensive. Plain
ed was the color of back and
shingle strips, variegated
reen, and tan faced the bal-
e, the awnings, and edged
hole roof, giving a sort of
y effect. The soft colors tone
nirably with all the sumachs,
ras, blackberries, etc.

I said before, it was a mis-
have whitewashed when we
Every blow of the roofer's
er caused a perfect snow
of lime flakes to fall inside
a Coop.

graded, seeded, and rolled
he ground of our Isola Bella,
g waves of last year's field
s lapping at its edges. An-
year and we shall smooth off
ld between the studio and
op. As for flowers, I decided
e very few. I have arrived at
ge—or is it only a mood?—
I don't want every time I
n out in a garden-chair to be
nted with a flower-bed that
weeding. So we threw out only two very carefully prepared wing beds from the back corners of the house, enclosing it as the center of a crescent whose ends were terminated by small cedars.

We made some elaborate plans for a tall hedge to back the flower borders, but have abandoned them, both as being too formal, and also because a hedge would cut off the breezes which sway our willows on even the hottest days, giving them a punkah-like motion that is both restful and cooling.

By June we were ready to furnish our retreat. We listed the uses to which we wished to put it. A place in which to serve meals or afternoon tea; a bower in which to read, sleep, or loaf and enjoy the simplicities of nature.

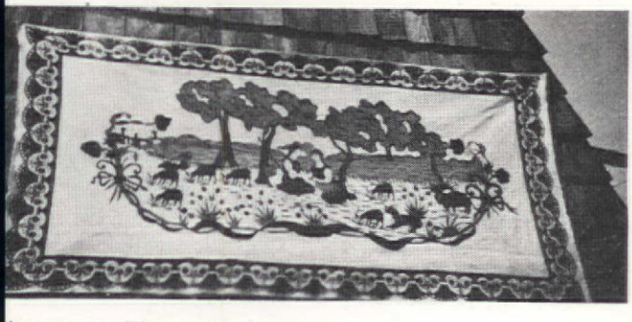
Back of the balustrade or low front wall to the left of the open doorway, lies an old broom closet on its back. It would never recognize itself, disguised in soft green paint, as a long box-seat. Before it stands an old kitchen table with sulphur-yellow legs and sapphire blue spools, and a green oilcloth top. A small serving table stands under the east window, and holds picnic silver, paper napkins, etc. It and two chairs are yellow with the blue trimmings.

A good studio couch is covered in monk's cloth with rust and green stripes; and from a pipe, laid along a scantling of the back wall, hangs a mosquito net, which keeps off the inquisitive fly which spoils your siesta. This rolls up on the pipe when not in use.

Above this scantling hangs the keynote—if keynotes ever hang!—of the Tea Coop. It is a batiked bit of white cloth brought from Greece, and it depicts two shepherdesses in most uncomfortable attitudes watching their rust-colored sheep, while their red, yellow, purple—with a touch of green!—dog reclines near by. This remarkable piece of modern Greek art combines in its borders all the colors used in the Tea Coop.

Under the trees, some old mission furniture, cut low and furbished up with gay colors and cushions—two tables, four stools, which serve as seats or end-tables beside the steamer-chairs, adequately complete the furnishings.

A survey of the first year of our chicken-coop-evolved-into-Tea-Coop, shows almost all entries in black ink.



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Now Reduced to a Price You can Afford

NO longer are bronze windows expensive. Today . . . you can enjoy the greater attractiveness, durability and economy of windows made of this long-lasting metal *at a lower price than ever before.*

The reason? Greater rigidity and lighter weight are achieved by new designs which use less metal. Then too . . . the demand for bronze windows has increased to an extent that has permitted standardized manufacture. Naturally this lowers their cost.

No rusting—no painting—Bronze is absolutely *rustproof.* Bronze windows, therefore, free you from all repair and replacement expenses due to rust. Bronze never needs painting. Beyond that . . . windows of bronze are exceptionally weathertight and dust-proof. They assure you a more comfortable and cleaner house . . . and, because of their narrower sections, they provide maximum visibility.

Easy to operate—Both in wet and dry weather, bronze windows open and close more easily than windows of other materials. No tugging, wrenching, jerking. For bronze cannot warp, swell or rust. Beautiful, as well as lasting, bronze windows offer the utmost in appearance, comfort, convenience and economy.

Building? Remodeling? Then why not enjoy all the advantages that can be yours with windows of enduring bronze? They may be had in both casement and double-hung types. Any one of these four manufacturers who use Anaconda Bronze, will be glad to send you additional data promptly . . . and without obligation.

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ANACONDA
from mine to consumer

3631

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Why don't you select a glamorous Imperial paper for your own home from the hundreds of dramatic designs?

You can be sure that Imperial *Washable* Wallpapers are the *best* value you could get at any cost . . . for Imperial's outstanding facilities include the world's most modern laboratories for color research and wallpaper development. Every Imperial *Washable* Wallpaper is identified in sample books by the silver label, as shown above, which guarantees the paper washable and fast to light. Insist that your paperhanger or decorator show you Imperial *Washable* Wallpapers.

Phone to Find Who Sells It

ASK *Jean McLain* *She will be glad to help you make your rooms more interesting. Her services are free. Write her all the information you can. She will send you personal suggestions, actual samples of wallpaper, and tell you the most convenient place to buy genuine Imperial Washable Wallpaper.*

GIVE THIS INFORMATION FOR EVERY ROOM:

Type of Room				
Size (Dimensions)				
Exposure				
Type of Furniture				
Color Scheme Preferred				

Address JEAN McLAIN, Dept. A-7, Imperial Paper and Color Corp., Glens Falls, N.Y.

Your name_____

Street_____ City and State_____

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FRANCHISED DISTRIBUTORS, DEALERS AND REGISTERED CRAFTSMEN EVERYWHERE

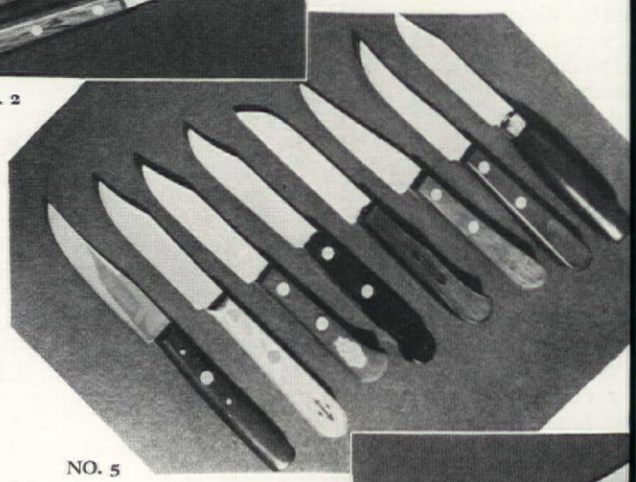
Paring knives that will pare

JEAN MUIR DORSEY

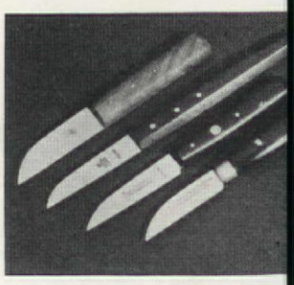
ARE your paring knives keen cutting, or dull edged and effort consuming? No blade can give entire satisfaction unless it is well shaped and of proper length and thickness. If you look at the illustrations you will see a great variation in the shapes of the blades—for different purposes.

NO. 1

NO. 2



NO. 5



No. 1—Straight edged blade with the back curved off to the point is called "sheepfoot point." This type of blade will master, without waste, the difficult contours of anything from potatoes to apples. Good for scraping vegetables, too. No. 2—The "spear point" although intended primarily for dressing and larding meats, will serve many purposes. No. 3—The "concave shaped blade" was designed especially for paring fruits and vegetables. Length of blade should be carefully checked. Three inches is a convenient length for a general-purpose paring knife, but for rapid paring a two and a half inch blade (No. 4) is handier. Rounded tip blade (No. 5) is the "clip-point," used for paring, slicing, and mincing.

To be efficient a blade should taper from the back to the and from the handle to the It is much easier to push or a properly tapered blade i ting than one that is the thickness throughout, with narrow cutting bevel grou the edges. The taper of a bla be seen by holding knife level and looking along it the handle toward the poi

Handle should be ca tested for size, shape, and If too small or too large to easily, muscles of the han strained and cramped. If too or the wrong shape, hand forward on the blade. The trations show a large num different handle designs— ones for those who have hands, medium and large or those with larger hands. Wh hold a knife in the hand it feel perfectly balanced. Woo dles of rosewood, cocoholo, maple, and boxwood give service. Rubber, celluloid, lite, and catalin are some synthetic materials being Finish of handles shou smooth, non-absorbent, a

ASK ANY Super-Shopper*

The Cannon Name on a Sheet is a sure Guarantee of Quality and Value

One minute, madam. . . . You don't need a magnifying glass. Just look for the Cannon label! Proper service in sheets depends on a great many fine points — in the materials and in the manufacture. . . . But those things are our worry, not yours. • Depend on this: The Cannon label on a sheet is a positive, all-around guarantee. That guarantee is possible because of our longer experience, better facilities and larger output. For years, Cannon has been the world's largest producers of household textiles. Such volume means VALUE, in everything that carries the Cannon name. • No other concern gives you the same high quality at the same low cost. You can trust the Cannon label to bring you the right answer to any and every sheet question. . . . Cannon Mills, Inc., New York City.

THREE FIRST-CHOICE SHEETS

If you want the best low-cost, long-service sheet, look up Cannon Muslin, regularly selling at about $1.20.* This sheet is strong, tough, durable, but richly soft and uniform. Now packed in Cellophane, to save you the bother and cost of a first laundering.

If you want luxurious comfort at modest cost, find Cannon's Utility Percale, at about $1.75* each. A new percale sheet, original with Cannon. Stays fresh longer. Wonderfully soft and smooth. Made of selected cotton in a firmer and closer weave, with 25% more threads to the inch than heavy muslin. Yet much lighter in weight, easier to handle, and less costly to launder. Sold in the new Utility Pack (patent applied for) — for cleanliness and convenience. . . . All this at little more than the cost of a good muslin sheet!

If you want top quality at much less than top cost, buy Cannon's Finest Quality Percale, at about $2.50.* The last word in bedtime luxury — at a cost almost a third less than the price you probably have been paying. Smooth. White. Firm. Fine. Exquisitely hemstitched (and monogrammed to order by your store at small extra cost).

**Prices slightly higher west of the Mississippi*

TRADE MARK MADE IN U.S.A. CANNON

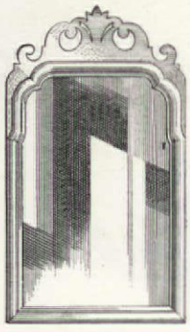
Cannon Sheets

THE FIRST NAME IN TOWELS IS THE LAST WORD IN SHEETS

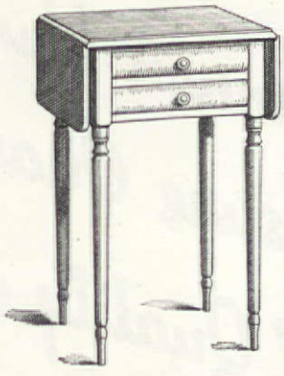
AT HOME ANYWHERE,

.... *in any* COMPANY

WHITNEY MAPLE fits graciously into any decorative scheme. Early American in feeling, it does not demand a purely Colonial interior. Its graceful lines and proportions make it adaptable to any room—formal or informal. Because its beauty is permanent and not that of a "tricky" or temporary fad, it adds charm to any home and harmonizes with fine furniture or other woods and periods. *Remember this*—it is one of the economies peculiar to fine maple—you do not have to buy a complete suite to enjoy Whitney maple.



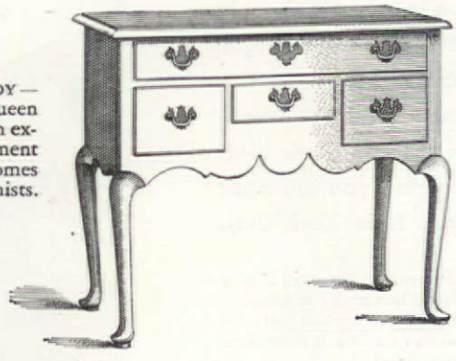
WALL MIRROR—A mirror of Chippendale type, showing Queen Anne influence. #6120—$21.90.



SEWING TABLE—This useful drop-leaf table was first made in this country about 1800. Its design shows clearly the influence of Thomas Sheraton on our Early American cabinet-makers. #6141—$25.50.

FALMOUTH CHAIR—Adapted from a Chippendale design dating about 1760. Originally the wings and skirt kept out errant drafts. #3529¼—$62.

PHILADELPHIA LOWBOY—This lowboy of Queen Anne inspiration is an example of the refinement of furniture in the homes of the wealthier Colonists. #3656—$60.



★ WHITNEY ★

PRICES SLIGHTLY HIGHER DENVER AND WEST

W. F. Whitney Co., Inc.
South Ashburnham, *Mass.*

Gentlemen: Please send me a copy of your booklet, "How to Furnish Any Room with Whitney Maple." I enclose 10c.

*Name*_____

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*City*_____ *State*_____

material that will not stain the hands or wash off in water.

Handles held in place by means of a pointed tang (the continuation of the blade) driven into the handle are apt to become loose. When tang is cemented in place and further anchored with a rivet, handle is more secure. Very durable are knives with composition handles in which tang is molded and riveted in handle as it is being made, one-piece handles, split part way up with a half tang held by two or three rivets, and two-piece handles with full tang secured with rivets. Tubular rivets with the large brass or nickel heads are superior to the wire or pin rivets. Pin rivets are apt to work loose as the knife is used and washed, while the tubular rivets lock and anchor the handles securely to the blade.

Blades made of high carbon tool steel take and hold a keen edge and are easily sharpened. The easiest way to sharpen a knife is on a flat whetstone. Remember a sharp knife in the hand is worth more than any number of dull ones in the drawer.

Roses enter the pantry

[*Continued from page 60*]

one cup of water. When the sugar is dissolved throw in the rose petals, a few at a time, and boil ten minutes, drain on a fine wire strainer. Now put into another syrup made of one pound of sugar and a half cup of water, stir them about until the sugar granulates, then take out, lay on a platter and dry in a very slow oven. When dry separate any petals that have stuck together and pack between layers of wax paper. If red or pink roses are used they will keep their color very nicely.

ROSE SYRUP is not as rich as the Rose Dew of Colonial Days, but is delicate for flavoring summer drinks or adding to sauces or custards. Put a quart of water in a porcelain kettle and bring to a boil, add two pounds of rose leaves, take from the fire and let stand twenty-four hours. Strain, put in a saucepan, add four pounds of sugar, stir and set in a kettle of boiling water until the sugar is dissolved. Cool, then bottle and seal. This will keep for any length of time, and is a real addition to the pantry shelf.

TINCTURE OF ROSES is a very old recipe, and the following is just as was written in the original recipe of more than a hundred years ago. "Take leaves of the Damask or Hundred-leaf Rose, if they can be had, or any sweet smelling Rose and place them without pressing them in a bottle; pour good spirits (alcohol) upon them; close the bottle an stand until it is required This tincture will keep fo and yield a perfume little to the attar of roses. A few of it will suffice to impregn atmosphere of a room wit licious perfume.

"Common vinegar is grea proved for numerous table a small quantity of this being added to it, and it refreshing to be used for on the brow when fatigue a headache."

ESSENCE OF ROSES. Pro quantity of the petals of f roses, put a layer of the in a wide-mouthed glass jar kle them lightly with fine s place over them a layer of ent cotton, combing it unt fluffy with a fork. Wet the with pure olive oil, then layer of the petals, and alternating the oil-wet cott petals, until the jar is fu the top of the jar securel a bladder or oiled silk, an in the sun for fifteen days. end of that time press the mass until no more of the p oil can be extracted, put i and cork securely.

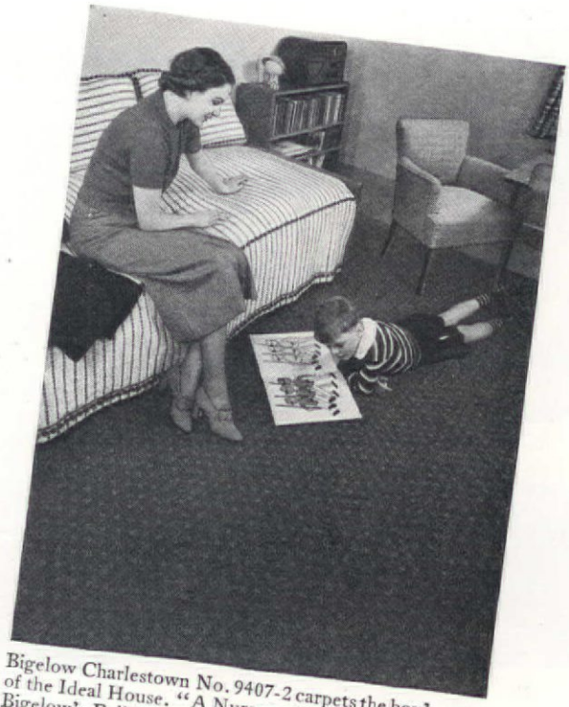
ROSE WATER. Take h ounce of fine sugar and dr four drops of the essence then rub it very fine, unti and scent are perfectly b pour on it half a pint of col mix well for a few minu then mix with two quarts distilled water; let it sta two days and then strain a piece of flannel. Bottle

ROSE BEADS if made b are very lovely, the texture and quite distinct from th erally sold as rose beads have a faint delicate perfu lingers on after years of u is a nice way of combinin ment with practicality. Ro are gathered at some lov or that graced some me occasion can be kept in tractive way.

Take one large cupful salt and heat; add to it on of rose, cut or pulled apar ing them down firmly in so that a fairly large am used, mix one half cupful starch with half cupful o and stir in slowly the hea using more water if neces make a mass that will h gether; put over the heat, all the time until smooth ½ inch thick; cut with a and roll each bead in th until perfectly smooth, the on a hatpin to dry and when they are ready to stri dough can be wrapped in cloth and let stand over ni it is just as satisfactory while warm, provided th

Room Recipes

by the BIGELOW WEAVERS



Bigelow Charlestown No. 9407-2 carpets the boy's room of the Ideal House. "A Nursery that can Grow Up" in Bigelow's Folio gives other sparkling background ideas.

ls and stairs should say welcome as charmingly as the ess! Bigelow's Brewster broadloom carpeting graces y step of this lovely entrance in the Ideal House that e & Garden built in Scarsdale, N. Y. And Problem , "First Impressions," in our Room Recipes Folio of good decorating ideas for hospitable halls!

"Going modern" presents no pitfalls if you're armed with recipes from Bigelow's wonder-working Folio. Look up Recipe No. 46, for instance, which suggests this exciting new looped-pile broadloom carpeting for your chief ingredient. . . . Bigelow's Loop-tuft No. 15, as modern as the latest dirigible!

Any day now you'll be feeling that deeply-feminine urge to change all the furniture around and do over your house! Don't put the brake on your impulse! Encourage it instead by going to your rug department and asking for a *free* copy of Bigelow's Folio of Room Recipes. It's a fund of fresh ideas . . . a course in decorating . . . a budget counsellor . . . and a guardian angel! Or send 10c for the Folio to Bigelow-Sanford Carpet Co., Dept. 9A, 140 Madison Ave., New York, N. Y.

RUGS & CARPETS BY
BIGELOW
WEAVERS

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Mutiny in the basement!

COMPARE OIL BURNERS!

Only OIL-O-MATIC Offers These Advantages

1. Metering Pump
2. Air Control
3. Low Pressure Atomization
4. Projected Flame

DON'T be content to buy an oil burner that burns oil in the ordinary, old fashioned wasteful way. Only Oil-O-Matic offers you outstanding advantages that provide quietness, cleanliness, comfort, freedom from oily smell and soot . . . plus *fuel savings up to 25%*.

And remember, you get these advantages only in Oil-O-Matic. You get *1. Oil Control.* Oil-O-Matic's famous Metering Pump measures oil drop by drop. You're free from the old slip-shod method that takes no account of the difference between thick and thin oil. *2. Air Control.* Oil-O-Matic mixes exactly the right amount of air with the oil, preventing two great fuel wastes—heat-sent-up-the-chimney and half-burned oil with resulting soot and oily film. *3. Low Pressure Atomization.* A basic improvement over other methods—avoids the wear, tear and waste of high pressure operation—does away with pin-point nozzle openings that dribble and clog—allows you to burn the heavy, low cost fuel oil and wring every drop of heat from it. *4. Projected Flame.* No part of the operating mechanism inside combustion chamber. Prevents heat warping and constant repair and readjustment.

Mutiny *now* against next winter's furnace tending. Take full advantage of Oil-O-Matic's Summer Easy Payment Plan—no down payment, no monthly payments till October 1st, low interest rates under F.H.A. and up to three years to pay! Oil-O-Matic can be easily installed in your present heating plant. Write or 'phone your nearest Oil-O-Matic dealer for full information.

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Please send me your new free booklet "How to add a room to your home."

Name.....

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rolled in the hand until smooth.

Probably every one who has ever had roses at her disposal has either made pot-pourri, or determined to do so at some time. It is not at all difficult to do and a well-filled rose jar is a joy for years to come, and dainty bags of the mixture make delightful little gifts at any season.

POT-POURRI. Gather the petals every day before they have lost some of their sweetness, and partially dry them in the sun, twenty-four hours is enough time to shrivel them a little. Before putting the rose leaves in the jar, it is well to put in five drops of oil of rose geranium mixed with the same amount of glycerine to prevent evaporation. Add the freshly dried leaves as they are secured, and with each lot that is put into the jar add a teaspoonful of alcohol to retain the natural scent. When all the leaves that can be had are gathered and in the jar, sprinkle a little salt, and shake every day for a couple of weeks until they are partly "ripened," then add ¼ ounce of allspice, ¼ ounce nutmeg, ¼ ounce cinnamon, 1 ounce orris root, 1 ounce dried lavender flowers, and a few heliotrope if they can be had. A half ounce of finely crushed tonquin-bean can also be added. Keep the jar closely covered except when it is wanted to perfume the room. Then add a few drops of alcohol to it, to enhance its fragrance and also to preserve the odor of the contents.

Combine old and new for livable rooms

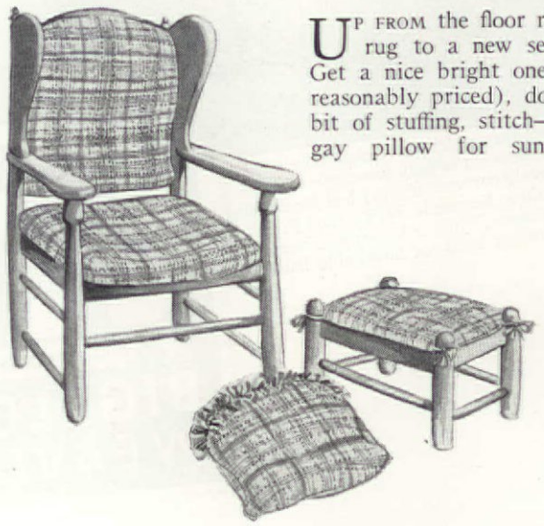
[*Continued from page 43*]

year-around home, but that happens to be a week-end cottage for use during the winter. It has been built upon an estate in wooded, mountainous country within easy motoring distance from New York City. The owners close their big house these months and liv the city, running out to smaller home frequently f few days in the country.

The comparative informali the mode of life for which house is intended and the lo nature which prompted its b ing have had much to do giving to these rooms their ple simplicity and their leanin wards the old peasant art of tries where mountains and f form the natural setting, as do here. But the fact tha owners are very much o world of today has introdu note of sophistication that is as much in the inclusion of S ish hand-woven materials, p pine furniture, and other that are smart right now, as introduction of several p modern pieces of furniture a those from the past.

The house has whitew brick walls and a roof of It perpetuates many of the tions of the simple homes early colonists of our countr it is sound proofed, equipped every modern convenience fully air-conditioned. This bination of characteristics, t of our modern life, has be terpreted very happily by th orator, Dan Cooper, in these livable and interesting roo

The unusualness of the in treatment of this house do stop with freedom in the whatever materials and fu ings may have seemed be the place, but is seen in t versal of the practice that u gives to the downstairs the living room and dining much more thoughtful and ough decorative treatment the bedrooms receive. In house the owners' bedroom more interesting, if anything the rooms that are usually as "principal." This seems an excellent idea, since the rooms are the more intimat personal rooms, closer to th of the owners. Furthermo man's bedroom is as well



UP FROM the floor rises the low rug to a new seat of impo Get a nice bright one (they're e reasonably priced), double over, bit of stuffing, stitch—and you h gay pillow for sunporch or

Showing h large rugs back and for a wing less than on

Homeward Bound?

Courtesy United States Lines

LET AN Architect CHART YOUR COURSE

● Just as a navigating officer expertly charts the course of his ship, so does an architect bring you safely to port when you build—basing his skillful design upon years of experience, selecting and specifying materials with trained discrimination, supervising the transition of steel and wood and masonry and glass into a finished residence of permanent satisfaction and lasting value.

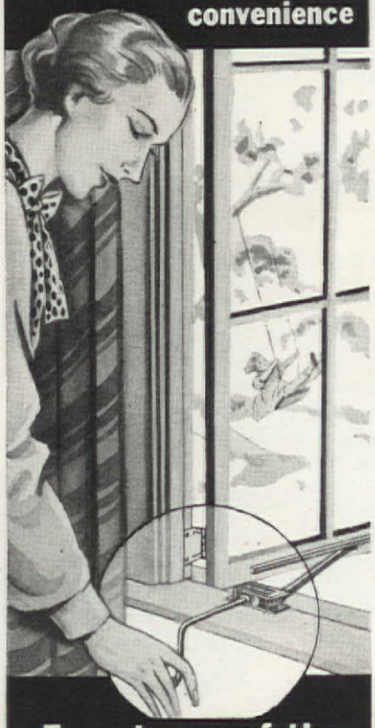
Glass is easily among the most interesting of modern building materials. Larger glazed areas are the very keynote of current architectural design. Larger mirrors, often made of colored plate glass, are an outstanding feature of the decorative trend. The result of this greater emphasis on glass is that the new home-owner enjoys a more livable residence, more stimulating surroundings, an illusion of even greater space than is confined within his walls. But to realize all the advantages of glass, and of other new and improved building materials, the experienced counsel of an architect is practically essential. His guidance is as important in building your new home as are any of the materials you employ. By all means, let an architect chart your course when you are Home-ward Bound. Libbey·Owens·Ford Glass Company, Toledo, Ohio.

LIBBEY·OWENS·FORD

Quality Glass

Everyone loves CASEMENT WINDOWS

and now this clever invention doubles their convenience



Four turns of the handle — and the WIN-DOR operator *opens the window!*

Makes casements open outward—no interference with drapes.

Operates casements through the screen—the latest idea.

WIN-DOR Hinges permit washing from inside.

You'll never be content with inefficient old-fashioned hardware, once you see how *much* this clever WIN-DOR Operator adds to the pleasure, convenience and appearance of your casement windows.

The WIN-DOR works as easily as the window operators on your car. Locks automatically in any position—safe, dependable—and surprisingly inexpensive. For new homes—or for remodeling, there is nothing else like it!

● Insist on WIN-DOR Hardware for STEEL or WOOD Casements. WIN-DOR is the standard specification of leading architects. See your Hardware or Window Dealer for a demonstration.

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FITS ANY CASEMENT—ANY PURSE

FREE BOOK—"THINGS YOU OUGHT TO KNOW ABOUT CASEMENT WINDOWS"

The Casement Hardware Co.
406 No. Wood St., Chicago
Please send your Book 402C.

Name.....

Address.....

City.....*State*.....

(Paste this on a penny post card)

rated and furnished as is his wife's room and with no loss of masculine character or interference with comfortable use.

Sturdy furniture and vigorous coloring make this unmistakably a man's room. The beds are of Swedish pine, in the natural light color, made after an old Swedish design, and have carved foot boards. A heavily built small table of oak stands in front of the sofa. It is Danish sixteenth century. The chair beside one of the beds and the bench at the foot of this bed are also old Danish pieces, the latter covered with fine old needlework. A simple Danish sixteenth century piece serves as a dressing table. Then there are one or two pieces of old Swiss hand-painted furniture.

The sofa is upholstered in a plain raw silk material of honeycomb weave in biscuit crust color. Against this the sofa cushions, of an English hand-woven fabric in stripes, furnish notes of subtle coloring. Swedish bedspreads are of interesting weave, patterned with a plaid in yellow, vermilion and brown on an off-white ground. Window curtains of a Swedish hand-woven material in vermilion shot with yellow, together with the old Danish embroidery covering of one of the chairs and other bright touches form color accents.

The side walls are covered with a modern Swedish wallpaper in horizontal stripes of light warm green-gray, and a deep gray that is toned with olive, while the ceiling shows a modern Swedish wallpaper patterned in twelve-inch squares with stars in their centers. The colors are light gray and a soft yellow. The stars are in a light tone of yellow. The use of plain end walls with patterned side walls tends to prevent a box-like effect while it gives greater character, interest, and a sense of space. It will be noted that the ceiling of this room is curved instead of having the sloping surfaces usually found in rooms in the roof. This form of ceiling is graceful and light in effect and is produced simply with wooden furring to which the lath and plaster are applied.

In the main feminine bedroom the walls are painted parchment color. They are plain but for a painted border on each end wall, a motif under each window, and a design from the walls of an old Swedish house that is painted in colors upon the plaster in the fireplace corner. This fireplace, which is of a type often seen in Sweden and Norway, lends interest to the room and makes it possible to enjoy the cheerfulness of an open fire in a room in which it would have been difficult to have accommodated a fireplace.

The ceiling is arched and is covered with a modern Swedish wallpaper in low tones of ment color with soft re violet. It is strewn with a p of slender star forms. The work is painted gray-blu relieved with mouldings in ment color.

The bed is of modern st sign and very wide, like s the beds in Sweden. It tak springs and two mattress by side. It is painted par color, like the walls, with ings picked out in pinky and blue. The dressing t modern also and is painted ment color. Modern tab plate glass and chromiu ished metal stand at either the bed, and the reading li the head of the bed, is mod chromium finished metal.

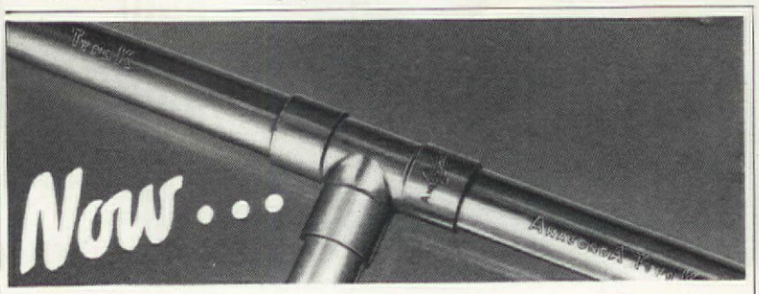
There are easy chairs, o holstered in beige modeled showing a stripe design; a covered with old hand quil gray-white and soft tones brown, and gray-green. Als are two old Swiss pieces, board, and a chest, whic tribute the gay coloring o painted floral decorations scheme. The bench in front dressing table is covered French hand-woven plaid ing red, blue, and gray trimming of red and blue Old Danish samplers, fram hung on the walls.

A plain cocoa color bro carpet serves as a backgrou the rugs which are of m size. Two are plain, enriche by their texture, while on especially beautiful modern ish rug in a design of s mainly in brown and crean with spottings of sunshi low that simply make it. T terial of the bedspread i Scotland. It shows strip blocks and varied weaves natural cream color of th with pinkish brown, gra and yellow tones through French material in gray clusters of flowers embroid deep blue and light blue in the curtains, edged fringe of soft old blue. Th curtains are of silk.

The ground floor

The owners' bedrooms w dressing rooms and bathro tween them take the entir floor of the house. On the floor are the living room, room, two guest bedroo kitchen and its depen also the service part, in two servants' bedrooms.

The green of the pine f the midst of which this h set supplies the key for th schemes of the two main r the ground floor, the dinin and the living room, in which green is the d color, harmonizing the roo the out-of-doors.



Non-rust piping costs go 'way down with ANACONDA COPPER TUBES

NO LONGER is rustless water pipe expensive. Today...an installation of Anaconda Copper Tubes assembled with Anaconda Solder-Type Fittings costs hardly any more than rustable piping. Installed by an experienced plumbing contractor, you are assured of long, dependable, "life-time" service...with complete freedom from rusty water and rust repair expense . . . For hot and cold water lines, for heating lines, these rustless copper tubes are "the last word" in low-cost, durable piping. Send for free booklet, "Copper, Brass and Bronze in the Home."

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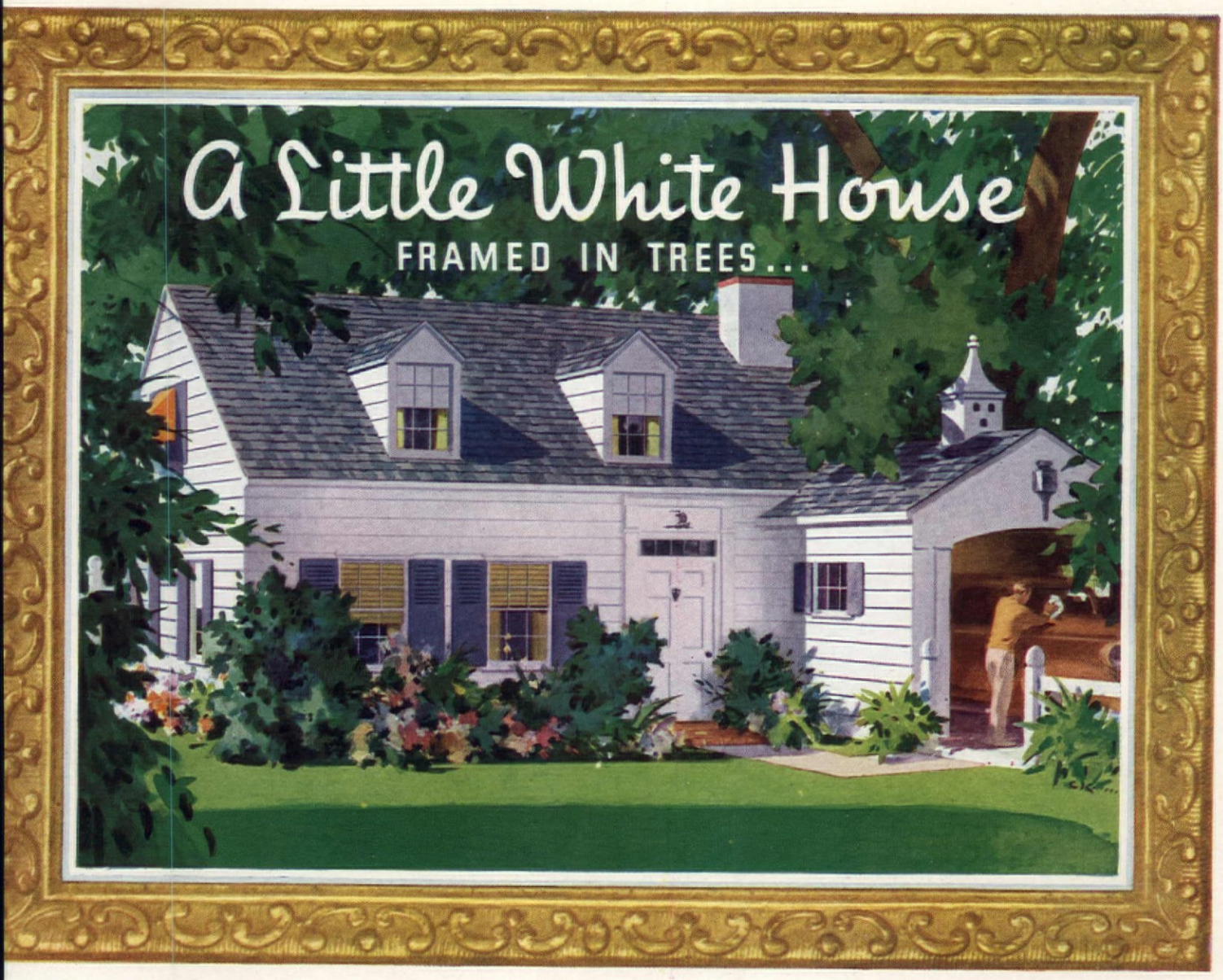


DON'T LET "CHEAP" PAINT SPOIL THE PICTURE!

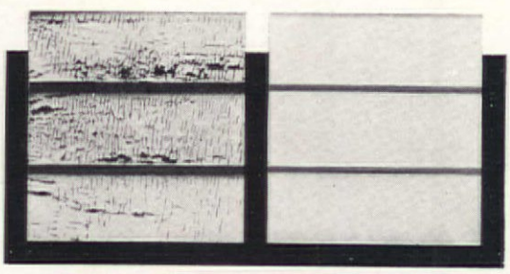
HOME, SWEET HOME! You've planned for it. Worked for it. Sacrificed for it.

Then why invite the heartache that is sure to low if you use "cheap" paint?

The first photograph at the right shows what ays happens—how "cheap" paint soon cracks l scales, not only marring the beauty of a se but exposing the wood to the ravages the weather.

That's hard to bear, but the sequel is heart-aking too. For before new paint can be put the old must be taken off, burned and scraped down to the bare wood...a costly operation t takes all the "bargain" out of the original . Then on top of that comes another expen- extra. Before the finishing coats are applied ew priming coat is needed.

But note the contrast with Dutch Boy. No rtaches here. No extra expense. For paint de with Dutch Boy White-Lead does not crack scale. It resists the weather — wears down stubbornly by gradual chalking, leaving a smooth, unbroken surface, one that needs no burning and scraping when repainting is necessary.



"CHEAP" PAINT

After a few months. A short life and a sad one. Now the surface must be repainted. But first the old paint must be burned off and then an extra coat—a new priming coat—applied. All this is expense the owner never figured on.

DUTCH BOY

After several years. Same location as "cheap" paint job. Look at the difference in condition. No cracking and scaling here. When repaint time does come, no burning and scraping and no new priming coat will be needed.

The experienced painter prefers to put on Dutch Boy because its beauty and durability give lasting satisfaction to property owners and reflect credit on his craftsmanship. He mixes it to suit the requirements of your particular job and tints it to the exact colors you specify. No one knows paint like a painter.

Dutch Boy White Lead

GOOD PAINT'S OTHER NAME

Dutch Boy helps you pay

If lack of ready cash prevents you from painting, take advantage of The Dutch Boy Easy Payment Plan. No down payment. Small monthly installments. One and a half to two years' time. Use the coupon below to obtain complete information and a copy of our illustrated booklet, "The House We Live In." Tells how to buy a paint job, how to select the right paint, the right painter and the right color scheme. Address Department 240, nearest branch.

NATIONAL LEAD COMPANY

111 Broadway, New York; 116 Oak St., Buffalo; 900 W. 18th St., Chicago; 659 Freeman Ave., Cincinnati; 1213 West Third St., Cleveland; 722 Chestnut St., St. Louis; 2240 24th St., San Francisco; National-Boston Lead Co., 800 Albany St., Boston; National Lead & Oil Co. of Penna., 316 4th Ave., Pittsburgh; John T. Lewis & Bros. Co., Widener Bldg., Philadelphia.

NATIONAL LEAD COMPANY
Dept. 240, *(See list of branches above)*

Please send me your free booklet "The House We Live In," containing color scheme suggestions and practical advice on interior and exterior painting.

☐ Include folder describing Dutch Boy Easy Payment Plan.

*Name*_____

*Street*_____

*City*_____ *State*_____

New ADHESIVE SEALEX LINOLEUM

TRADEMARK REGISTERED

saves time and money... gives a stronger floor

Installed in 2 to 3 hours* ...8:30 A.M. workman starts laying linoleum

11 A.M. new floor is *ready for use*... no waiting for this linoleum to "set"!

"What a beautiful floor! It's even handsomer than I imagined when I saw the pattern in the store!" "You're going to find this floor very easy to clean, too, Mrs. Carter. You see it's perfectly smooth, with no cracks and crevices to catch dirt. That means it's really sanitary." (The pattern is "Havana," A-7465.)

Your linoleum floor is no stronger than the adhesive with which it is laid. Its permanence depends upon this hidden factor, just as the strength of your car depends on the steel body under the enamel.

No danger of an inferior cement, which may cause the linoleum to pull loose in a short time, if you choose Adhesive Sealex—the modern inlaid linoleum! A new and specially strong adhesive is applied to the back at the factory—under pressure—with absolute evenness.

Every square inch of this new, inlaid linoleum clings to your floor with a vise-like grip—something never before possible. Insures a stronger and more durable job.

Then, too, Adhesive Sealex Linoleum** is laid on any dry, smooth floor without felt lining. Naturally this saves time and materials and so often cuts the cost of a finished floor up to 20%!

So choose your floor from the wealth of smartly styled patterns Adhesive Sealex offers. New texture effects. Richly marbleized Veltones. Colorful tiles. *All with a smooth-as-silk surface that's superlatively easy to clean.* See it at the better stores!

**Estimate based on average floor of 15 sq. yds.* ***Patent 1,970,503*

The modern Inlaid Linoleu made by Congoleum-Nairn In world's largest manufacturer smooth-surface floor-coveri

SEND 10c to Congoleum-Nairn Inc., Kearny, N. for our new 20-page decorating book, "Buildi Color Schemes from the Floor." 20 illustrations full color, showing smart interiors that may achieved with Sealex Linoleum Floors. Many these rooms also feature the modern, permane wall treatment—Sealex Wall-Covering.

n the dining room, the walls covered with a modern hand-cked cotton fabric that shows old conventional pattern of f forms and sinuous stems in ee tones of green, a fresh light low-green, a medium blue-en, and a dark bottle green. e lower portion of the walls, ming the dado, are painted k bottle green. Against this k dado and the deep chocolate wn of the carpet, the furniture ws effectively, for it is of ey-colored fruit wood. Accent upplied by the chair seats up-stered in a white leather tex-e material that ties in with the te background of the wall cov-g. The curtain material shows ed diagonal lines in green on hite ground.

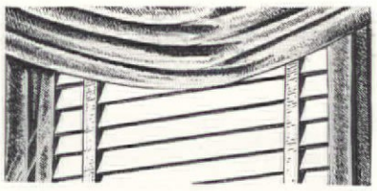
n the living room there is a e bow window, embracing a ge of five windows that look into the surrounding forest. ween the straight trunks of trees, which lend depth to the v, can be seen the distant ntain slopes. A box for potted nts fills the recess formed by bow window and is deep gh so that the pots are out of t and only the plants are seen. box has a metal lining and top of it is edged with a little mental fence of loops of y iron wire painted green. re are no curtains at these lows to obscure the view. re are only white Venetian ds that can be drawn up out he way in the daytime and are made interesting at night the pattern of shadows cast n them by the plants in the low box.

he walls and woodwork of iving room are painted a soft n and the mouldings are ed out in dark green. The ng is painted off-white. The et is plain chocolate brown. sixteenth century Danish ted chest with its bright col-ornamentation picks up the f furnished by the growing ts in the window. There are floral designs upon the cush-in some of the chairs and on chaise longue. Two of these ions are especially worthy of ation, a rag cushion from nark in mauve-gray, butter w, green-blue, and other love-ues, and a cushion with a th of flowers in appliqué em-dery done in multicolor on a treuse ground.

he sofa is upholstered in a ern material in cream, yellow carnelian. Other upholstered s are in plain fabrics of low and quiet coloring. The e longue is self effacing in a velvet that matches the late brown of the carpet. A ed pine desk with an old sh side chair of oak that has at in needlework, a small d table of pine from Switzer-land and several pieces of old Danish furniture in oak and in walnut together with lamps and accessories complete the picture.

Cut flowers in graceful vases on every hand lend their beauty and their perfume to the room. They are seen to advantage against the plain green of the walls and woodwork and the quiet, deep tones of the furnishings. They, somehow, enhance the charm of the interpretations of floral motifs in the embroidered and woven cushion covers and upon the old hand-painted chest. These representations of flowers, in turn, link the natural flowers into the decorative scheme.

Life is closely interwoven with the decoration and furnishings of these rooms—the life of the people whose home this is, the life of the forest and mountains, and the life of the plants and flowers. There is, too, a very real relation to the life of other times and other countries through the old furniture and decorative designs. It is all very genuine and human.



Perennial Smartness

Trim, slim, and beautifully finished, Columbia Residential Blinds are the last word in window smartness . . . and they're just as enduring as they are smart. We use only straight-grained woods . . . we use only the best tapes because they outwear any other tapes made . . . we manufacture our enamel right in our own plants. Equally important, every Columbia Residential Blind is made especially for the individual window . . . measured and fitted by Columbia Authorized Dealers who are specialists in this type of work.

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BLINDS
Used Everywhere to Beautify Homes
(BY THE MAKERS OF COLUMBIA WINDOW SHADES)

The Columbia Mills, Inc.
225 Fifth Avenue, New York
Please send me your "Book on Blinds" and the name of my nearest dealer.

Name_____

Address_____

City_____ State_____

Planting Peonies?

[*Continued from page 53*]

knife with a short sharp blade to cut and to work the roots apart. Have three to five eyes on every division. A one-eye root or division will grow, but so slowly that the gardener will become disheartened and discouraged.

The Peony is remarkably free from many diseases. Failure to bloom may not be due to the ravages of disease at all but to easily corrected physical conditions.

Plants in the deep shade of tall trees or shrubbery suffer not only from lack of sunlight but also because the tree roots absorb large quanities of the soil moisture. Faulty drainage and the subsequent accumulation of water may rot the roots. Excessively deep planting may result in gnarled roots which are more susceptible to the development of galled and imperfect growth.

Fungus infection such as the botrytis blight may set in. It shows as brown splotches near the soil line. The buds only may become black and dry, or the whole plant may be affected. This blight reproduces by spores, which can be recognized by velvety patches on the infected area. Rain, wind, and ants help to spread the spores. Since the spores can live over the winter it is best to cut back to the soil line and burn any infected branches. If the entire plant is diseased better to dig it up, burn, and replace the soil with new soil free from fungus spores. Root rot is believed to be due more often to deep planting, heavy mulching, or over-feeding than to disease.

He has a standing date with his best girl back home

THE telephone carries all the warmth of a personal greeting across the miles. One swift, simple call cures a touch of homesickness . . . gladdens a family . . . heartens an absent son.

Set aside a regular time, say once a week, to visit voice-to-voice.

Make it after seven in the evening, or any time Sunday. That's when the rates are lowest for station-to-station and person-to-person calls to most points.

OVERSEAS *telephone rates to most countries are now reduced.*

Quiet

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Chrysler Engineered, More Dependable

YOU'LL NEED keen ears to hear Chrysler's Airtemp. Either *air conditioning* . . . or *automatic heating*. For Airtemp equipment is QUIET. What's more you'll find Airtemp is Chrysler dependable. It's engineered for many years of very economical operation. Greater comforts at lower costs.

Residential Air Conditioning

NOW you can buy "Matched Units" that fit together. The NEW *Direct Fired Winter Air Conditioner*. The NEW *Summer Air Conditioner* to match. They're made to function together in perfect harmony and can, but need not, be installed simultaneously. And Airtemp means Chrysler dependability and complete stability.

Airtemp's NEW *Year-Round Conditioning System* . . . compact, efficient, dependable. Heats in winter. Cools in summer. Easily adaptable to hot water, steam or vapor systems. Provides humidification, dehumidification, filtering, and gentle circulation of air.

Automatic Home Heating

Airtemp also brings a revolutionary NEW *Automatic Oil Burner*. Many surprising economy features. It's quieter. Most dependable. Very economical. It's engineered and built by Airtemp in Airtemp's own plant. Airtemp also provides complete Automatic Heating Systems, oil or gas fired, for all types and sizes of homes.

All Airtemp equipment is priced right. Easy budget plan makes Airtemp easy to own. Fill out, and send coupon for literature.

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Gentlemen:—Send details of Automatic Heat ( ) Air Conditioning ( ) Dealer Franchise ( ).
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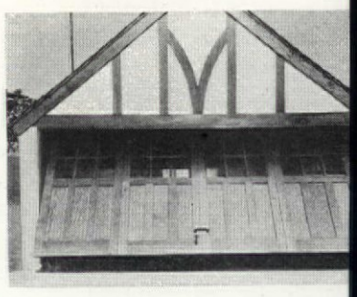
AUTOMATIC HOME HEATING & AIR CONDITIONING SYSTEMS

SUBSIDIARY OF CHRYSLER CORPORATION

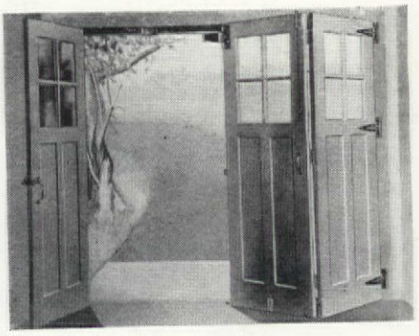
Five ways to open your garage doors

Illustrated is the so-called "Ro up" garage door. The door ro on vertical tracks and rests on ho izontal tracks when fully opene The necessary hardware is side, away from moisture. is operated from the inside an automatic spring trip, and cord is provided to bring t door down within easy rea

Described as "Swing-up," the second door is designed on the pivot principle. A slight pull on the outside handle starts the action and the door floats quietly into the full open position, where it rests securely on tracks. This device, is especially recommended for cases where the garage is no longer than the car. Old doors can be converted readily to the "swing-up" type of door

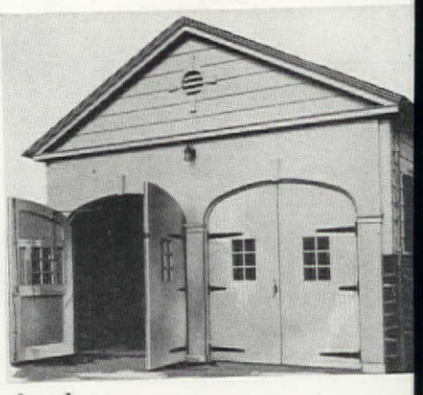


All garage door hardware from The Stanley Works

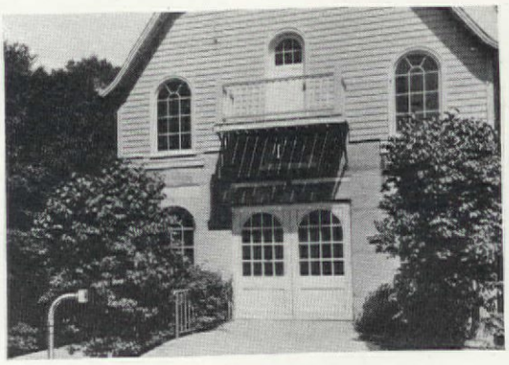


Third is the "Folding S ing" garage door, desig for openings with th four, five, or six door equal width. With thi section can be opened be used as a passage when it is needed, with opening the entire door

Next is a garage door with ball bearing hinges of wrought steel, and a door holder, visible at the top of the left door



Last is an electrically operated hinged door. The electric button can be seen in the left foreground, some distance from the actual door, so that it can be operated without the driver having to get out of the car



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THIN-MIX" Fuel Control
eps oil heating costs down

OU can have automatic heat in your home without worry about expense. en if your home is small, you can af- d automatic heat... *if it's Delco-Heat.* e Delco-Heat "THIN-MIX" Fuel ntrol cuts oil heating costs. Talk to the nearest Delco-Heat dealer. k him for proof of "THIN-MIX" el Control economy. You'll be de- ted to learn how easily you can get of all furnace drudgery, and enjoy healthful automatic heat of an eco- nical oil burner that is a product of neral Motors.

ERE IS THE "THIN-MIX" Fuel Control

Cuts cost because it gets more heat out of the oil

"THIN-MIX" Fuel Control releases ll quantities of cheapest grade domestic fuel nto the Oil Airator, to produce a THIN XTURE that is RICH in heating power. THIN MIXTURE saves you money. It roof that it pays to own an oil burner built General Motors.

Delco-Heat meets ll 7 requirements for reliable, low-cost *automatic heat*

- Low First Cost . . . 3 years to pay.
- Low Operating Cost insured by the "THIN-MIX" Fuel Control and other features.
- Entirely Automatic, no dust, no dirt, no ashes.
- Quiet Operation . . . one moving part, one piece frame.
- Fast Action . . . quick, radiant heat.
- Reliability . . . a product of General Motors.
- Dependable Performance. Completely produced by one organization. Backed by written warranty.

DELCO-FRIGIDAIRE NDITIONING CORPORATION
DAYTON, OHIO
OMATIC HEATING • AIR CONDITIONING
DUCTS OF GENERAL MOTORS

COUPON TO ABOVE ADDRESS—DEPT. AH9

want to be shown that Delco-Heat will give automatic heat I can afford.

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Of interest to you?

Protection for your preserves

Save time and labor! Use "Jiffy Seals" when you put up your preserves. They are transparent cellulose discs that must be moistened, stretched across the top of the jar, and the edges turned down and secured with a rubber band. As the disc dries, it shrinks and draws the cellulose film into a perfect air-tight contact with the edge of the glass at every point. "Jiffy Seals" fit any type of glass or jar. They are easy to use.

Hear ye! Hear ye!

Here is the "Speedmaster"—an electric tea kettle that provides hot water quickly and conveniently. Two pints of boiling water in less than six minutes. Can you imagine anything more helpful for that quick, pick-up cup of tea or that off-time shave? It has dozens of uses and meets them all on time. A gentle whistle calls you when the water is just hot enough. West Bend Aluminum Company.

To start the logs blazing

The Indians never had anything like these "Indian Fire Brands" to help them kindle their fires but here they are to help you build yours. They are convenient, quick and thoroughly scented with the fragrant perfume of the woods. If you have a fireplace in your living room you must try these "Indian Fire Brands." You will be delighted with the fragrance. They come from New England—from the Birchcraft Studio.

The Neal Family—100% Iron Fireman

The Neals of Marion, N. C. know that Iron Fireman automatic coal burner provides the finest and most economical automatic heating that money can buy. In their homes and in their business, Iron Fireman has made savings in fuel bills and has increased the efficiency of the heating plants. They say to you: "Iron Fireman firing is one of the finest investments that we have ever made."

W. W. Neal, Sr., J. G. Neal and W. W. Neal, Jr. In the background a prize Neal catch of Florida tarpon.

Home of W. W. Neal, Sr. and Iron Fireman installed in a steam boiler. 25% yearly saving in fuel cost.

J. G. Neal home. Iron Fireman installed in a warm air furnace. Substantial fuel saving.

Marion Knitting Mills, Inc. Iron Fireman installation cut annual fuel bill 24%.

Home of W. W. Neal, Jr. and Iron Fireman installed in a steam boiler. 25% yearly saving in fuel cost.

No other fuel or firing method gives so much for the money

IF YOU pay fuel bills for a home or business you can profit from the experience of the Neal family. You want automatic heat. You want to cut fuel bills. You can do both with Iron Fireman. The facts are inescapable. If you were to install an Iron Fireman in your present heating plant you would profit in four major ways: (1) Make substantial savings in fuel costs; (2) Reduce firing labor to a minimum; (3) Establish greater heating efficiency through the maintenance of steady, even heat, automatically controlled; (4) Eliminate the wasteful and unwholesome smoke nuisance. Making all of these things possible would be Iron Fireman, a machine of the highest quality that gives years of faithful service.

You owe it to yourself to get the facts about Iron Fireman. Not generalities, but a specific report on what Iron Fireman can do when installed in your heating plant. The nearest Iron Fireman dealer will make this report gladly, and without obligation. He will submit the names of Iron Fireman owners, so that you can check on the experience of people in your own community. The Iron Fireman line of automatic coal burners includes models for home heating plants and for commercial or industrial boilers developing up to 500 h.p. A standard residential model can be purchased for as little as $8.97 a month, with small down payment. Iron Fireman Manufacturing Company. Factories: Cleveland, Ohio; Portland, Oregon; Toronto, Canada. Dealers everywhere.

• Shown below is the new Iron Fireman *Coal Flow* which feeds coal direct from bin to fire, abolishing all coal handling.

IRON FIREMAN
Automatic COAL Firing

IRON FIREMAN MANUFACTURING CO.
3077 W. 106th Street, Cleveland, Ohio
Type of plant:
☐ Send literature ☐ Commercial Heating
☐ Make firing survey ☐ Power ☐ Residential

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Address_____

What it Costs

TO DO WITHOUT AUTOMATIC HEAT AND AIR CONDITIONING

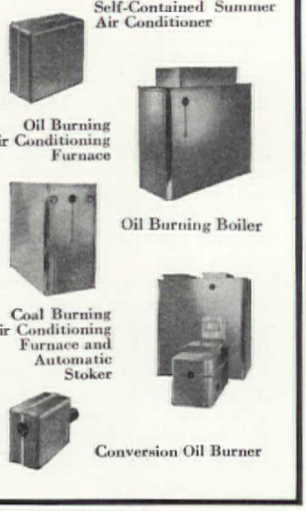
OIL BURNING AIR-CONDITIONING FURNACE

When you consider all the facts, it becomes apparent that it can cost you more to do without automatic heat and air conditioning than to enjoy its advantages. If you take into account the time, as well as money, spent on an antiquated heating system, the everlasting dusting and never-ending cleaning bills, you begin to realize that there is something more to the cost of heating than the price of fuel. Medical Science, too, has proven that the same dry unconditioned air which causes your furniture to check and fall apart is injurious to the family's health as well. In fact, as a factor in guarding the family's health, automatic heat is equally as important as it is to provide convenience and comfort.

And here is good news! You no longer need to pay in inconvenience, time and money—for Herman Nelson brings modern air conditioning well within your reach, with equipment designed to fit your needs and your pocketbook. Feel free to consult the Herman Nelson distributor nearest you. He will be glad to explain the many advantages of Herman Nelson Automatic Heat and Air Conditioning without obligation.

A COMPLETE LINE OF PRODUCTS

to meet every individual requirement



If you cannot locate your distributor easily, write to us for full and complete details.

herman nelson moline illinois

HERMAN NELSON

Automatic Heat and Air Conditioning

GENERAL OFFICES AND FACTORIES AT MOLINE, ILLINOIS

Removing the sigh from the pines

BEATRICE H. HEATH

THE value of pine to create a feeling of Early Americana in the new Colonial home has been widely demonstrated. The beauty of this wood is acclaimed in rooms where color is spontaneously used in the furnishings, but in the kitchen where color is consciously introduced, a problem is likely to arise.

In our Colonial home such care had been taken to produce a "powdered wig and hoopskirt" impression that a colored tile kitchen would have been anachronistic, so pine seemed to be our only solution.

Linoleum which simulated old pine was the answer to our search for a suitable wall covering; a broken stone design was used for the floor and a black marblized linoleum made a modern drainboard look like a resurrection from an old farmhouse. The doors, cupboards, and trim were finished in old pine—a perfect complement to the walls.

When the pine caught the gleam of a sunbeam or the glow of the electric light, it provoked an enveloping warmth, but at the time of day when there were neither real nor artificial rays, frigidity reigned. The gaily papered breakfast room which adjoined the kitchen could not counteract the relentless feeling of cold which pine minus color and light is bound to evoke.

Taking our cue from THE AMERICAN HOME model kitchen, we used color as a keynote. Blue, red, and copper were decided upon: copper for its golden glow, red for its warmth, and blue as a foil for the copper, red, and pine. A blue checked and fringed luncheon cloth cut in half served as a curtain. A pair of old spoons was bent and used as tie-backs. As a cornice two thin sheets of copper and of tin were employed. These were purchased from a tins who cut and scalloped ther the desired width and length. tin sheet was placed under copper with the scallops alte ing. These were held togeth each indentation by the e type of paper clip. Having of the traditional ivy bowl h ing in the center of the win we conceived the idea of ma an ornament out of a nece An old yellow watering which was indispensable to plants but reprehensible to eye, was painted red with ac of blue. This proved a u substitution for the ivy bo

The lighting fixture dir over the sink and near the dow was painted red. A white, and blue crocheted pull denoted our patriotism.

The window is flanked either side by cupboards reach from window to wall the sides of these cupboards loped openings were cut a higher than one half their h and slightly narrower than width. For a backing, strip board were placed four i from the edge. This forme right angles to the window small exposed cupboards in were displayed odd pieces o ored bric-a-brac. The int were painted blue.

The border strip of the covering, which was three of the room height, was pa with the same blue. Ther chopping bowl electric f which was used in its na state in the breakfast roon painted red to correspond the fixture over the sink. walls were adorned with and copper pots.

This spelled finis to a met phosis of a pine kitchen. gave it laughter which could not chase.

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"REDUCED MY FUEL BILL 40%" writes Mr. O. H. C., Des Moines, Iowa, "it's the best investment I ever made. We have even heat all the time and a much cleaner and more healthful home. My wife and maid never touch the heating plant any more."

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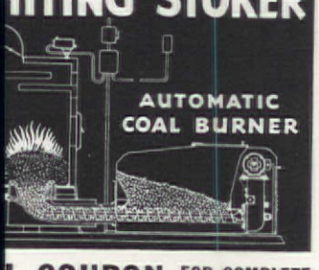

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State

Right from our own kitchen

CALAVOS, or avacados, or alligator pears—call them what you will—have come into their own within the last year or so. They have been with us for quite some time, but not until lately have they been included in the average diet to such an extent.

From 1856 on, the California growers have been intensely interested in this delicacy. Then from 1915 an extensive growing and cultivating process has been carried on until today we have the perfect Calavo, creamy and nut-like in its flavor, and highly nutritious. They are particularly valuable in the Lenten season, for fish and egg dishes when blended with the flavorful Calavo take on new interest. They are a valuable energy food, and furnish iron, calcium, phosphorus, and vitamins A, B, G, D. Here are two recipes from the booklet of the Calavo Growers of California:

Calavo-Corn Whip—1 medium Calavo, 3 ears of fresh sweet corn, juice of 1 small lemon, 4 small green onions (optional) ½ small green pepper, pinch of garlic salt (optional). Put the calavo through ricer and then beat with lemon juice. Remove the corn from the cob with medium shredder. Chop the onions and pepper very fine. Mix the ingredients and add the garlic salt. Use this for stuffing celery or serve a portion of it on lettuce, surrounded with tomato slices, and serve with French Dressing.

Calavo and Date Whip—1 cupful mashed calavo, 1 cupful stiffly whipped cream, and ½ cupful chopped dates. Fold cream into calavo, add dates, pile lightly in sherbet glasses. Chill and serve topped with grated cocoanut or whipped cream.

* * *

Here is a hint for you canners—add 1 tablespoonful Angostura Bitters to each batch of blackberryberry jam, and to cranberry jelly and apple jelly. I like to sprinkle a teaspoonful of the bitters over the apples in apple pie, just before putting on the top crust.

* * *

Did you know that sliced ripe olives are a tasty addition to fruit salad? And you should always keep a can of them on your cupboard shelf, as they can be used in combination with almost any food, and are delicious just "as is," or as a relish or appetizer either before or during a meal. They are good to taste and good for us, and do not lose their vitamin A potency during the process of canning.—ELSA MANGOLD, Dietitian of The American Home Kitchen.

Look at **these houses** *for* PAINT IDEAS

Pennsylvania farmhouse in Gwynedd Valley, Pa. Siding and first floor shutters painted with Cabot's DOUBLE-WHITE; second floor shutters, Cabot's Green Gloss Collopakes. Architect, G. Edwin Brumbaugh, R. A., Philadelphia.

The house of an architect-owner in Atlanta, Ga. Shingled walls, brick chimney, and trim, Cabot's DOUBLE-WHITE. Architect, Flippen D. Burge of Burge & Stevens.

An example of the much favored Regency phase of Georgian architecture, in Charlottesville, Virginia. Architect, Milton L. Grigg. Cabot's DOUBLE-WHITE on woodwork.

Elements of Tudor design give a pleasing effect to this house in Portland, Ore. Architects, Cash & Wolff. Cabot's Old Virginia White *on brick, Cabot's Shingle Stain on siding.*

HERE are four houses, differing greatly in architecture, but alike in one respect. Each is painted with beautiful, enduring Cabot's Collopakes.

Careful home-owners prefer Cabot's Collopakes for the same reasons that make them the 2 to 1 choice of leading architects. These improved paints have *greater hiding power* and *longer life* —a direct result of the patented Collopaking process which divides the pigment hundreds of times finer than in other paints.

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AH-9-36

Dressy drinkables

VIVIAN RICHARDSON

ARE you the kind of woman who just naturally likes to ask people in on the spur of the moment? So am I. Do you work? So do I. Is your kitchen in-a-door and your cupboard, though ample for supplies for two, too small to keep on hand much with which to refresh the unexpected guest? So is mine. Therefore, in happy self-defense (because I *will* ask friends in after the show; because I wish to; because I am resolved not to allow work to squelch an inherited flair for spontaneous hospitality), I have hit upon some simple tricks. My working basis for an after-theater bite is simplicity itself: for instance, rye bread, cream crackers, sweet butter, spiced watermelon or other preserve, nuts, olives stuffed, at least four kinds of cheese, and fresh fruit. But mostly I dress up the drinks.

But, you say, you don't like chocolate. You think it is a namby-pamby, characterless drink. So do I, as it is usually served. It took an aged Mexican woman whose heart was as kindly as her face was wrinkled to change my mind about chocolate. When she could get it, she used the prepared cake, made with brown sugar and freshly ground spices and egg yellow, from the chocolate mill in the town's Little Mexico. Lacking these, she showed me how the spicy brew can be prepared.

Mexican Chocolate

Use unsweetened, or bitter, cake chocolate. Use one square to each cup of whole milk. Add an extra cup of milk "for the pot." Use one level teaspoon sugar to each cup of milk. Let's say we're serving five: Place your six cups milk, five squares chocolate, and six level teaspoons sugar in a wide-mouthed, deep pot over medium flame. Stir at intervals until chocolate is melted. Then grate one half nutmeg bean into the pot; add one third teaspoonful ground allspice, one half teaspoonful ground cinnamon, and stir well. Continue stirring slowly to prevent scorching of milk until contents come to a boil. As contents strike the boil, place an eggbeater in the pot, and beat the liquid until foamy. Let the brew reach a boil the second time, and repeat beating. Bring to a boil the third time, beat again, and serve immediately. All beating must be done over the flame. Your taste may require a little less or a little more sugar: one trial will show.

Like many another, I'm fussy about my coffee. But good coffee is so much a matter of personal preference: I'm a boiled coffee fan—"fried coffee," the cowboys call it. I use one rounded teaspoonful of coffee grounds to each cupful of water, add one more teaspoonful for the pot, and let the ingredients come to a boil, boil for one minute, simmer for five minutes. A dash of cold water settles the grounds. But using your own recipe, no matter how you prepare your coffee, there are nice tricks to serving. My favorite for a wintry night, to be accompanied by rosy apples on old blue Dresden plates with matching Dresden-handled fruit knives, was gleaned from Louisiana plantation hospitality.

Coffee with Cheese

Have fresh American cheese quarter of an inch thick. Cut in inch-long oblongs. Show your guests how to drop a cheese oblong into each cup of steaming hot coffee, and serve the coffee without cream or sugar. The cheese, after a minute, imparts a rich savor which dispenses with cream; and presently the cheese, melted mellowly, may be lifted to the mouth with the coffee spoon. You will get repeats on this, especially from the men! "Sounds awful," laughed one woman when I told her about this Louisiana trick—but she changed her mind!

A Texan trick is to drop two or three fat, fresh, unsalted pecan halves into a cup of coffee, bla The nuts do not affect the cof flavor at all, but themselves a deliciously warmed.

My Argentine friend has w me to his manner with iced coff He squeezes juice of half a li into his tinkling glass, and "tak it straight" without cream sugar. Or try this one, serving w small buttered rolls, or toast slices of pound cake:

Coffee Nog

Brew coffee in your favor manner. Have ready whipp cream into which (for each cups) a teaspoonful of powde sugar, one fourth teaspoonful freshly ground nutmeg, and a da of vanilla extract have be whipped. Top each coffee cup w a mound of whipped cream, a serve. Those who must have swe ened coffee may add sugar to tas Not a new idea, of course—b as good for hot coffee as for ice

I'm very particular, of cour about the fresh fruits which m follow. My apples are har chosen and washed and polish till they gleam; grapes must fresh and frosty cheeked from ice box; banana coats must w leopard spots; tangerines announ their excellent interior by the gl of their skins. Sometimes the fru make their appearance hea within my old wooden dough tr

5 o'clock ... on any afternoon

IMAGINE this lovely *Sun-Ray* service on *your* table ... ready for tea! Every piece sparkling like sunshine. Every one hand-made by Fostoria's famous craftsmen. Real *party* crystalware ... priced so low that you can afford to use it every day.

Sun-Ray is so practical, too. It can be used by itself or combined effectively with all types and styles of china ... for luncheons and dinners as well as tea ... and that's an important point this season, because fashion today calls for varying one's service, using different pieces for different courses.

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Write for Leaflet No. 32, illustrating many these cheerful pieces and listing every one!

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Fostoria

THE GLASS OF FASHI

in which some grandmother used to knead her fragrant loaves; sometimes my fruit plates bring in the individual services—a rosy apple, a cluster of grapes and a half-moon of Holland cheese upon each plate.

The Russians do many exciting things to tea. Borrowing ideas from them, I like:

Hot Tea with Apple Slice

Serve tea hot in glasses, in each glass a thin wedge of apple studded with a clove or two. If you own a samovar, by all means use it. And serve:

Tea with Cherries

Still "going Russian," serve hot tea in glasses, to each of which has been added a preserved whole cherry with a bit of its own juice. (*Preserved* cherries—maraschino cherries won't do.) The cherry imparts a ruby-red glow to the tea which is as good-looking to see as the beverage is to drink.

Iced coffee with ginger sticks is a cooling mid-afternoon refreshment. Serve iced coffee in tall glasses, topped with slightly sweetened whipped cream and a dash of nutmeg. Serve with preserved ginger sticks in bonbon baskets.

Hot Prune Hoffer

This idea may be old as the hills, for all I know, but we hit upon it quite by accident, and were so delighted that we immediately named it "Hot Prune Hoffer," in honor of the absent-minded aunt who had heated a jar of prune juice instead of a jar of cold chocolate, as she had intended. Just heat the prune juice. Add cream, and perhaps a little sugar to taste—as you taste it. Delicious for the insomnia-ridden guest who can't abide hot milk.

Just simple tricks, you say. Of course, but a little "differentness" to serving or in the preparation of a simple old stand-by is worth trying. An apple whose half-moon aperture, made with two simple slashes of the knife, has been filled with a half-moon of Edam cheese is something more than apple and cheese. It's not altogether what you serve, but how, that loosens tongues and achieves that good conversation which is the best background for any hospitality.

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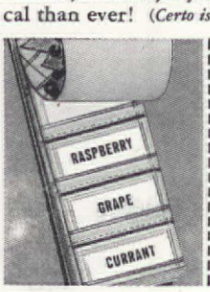

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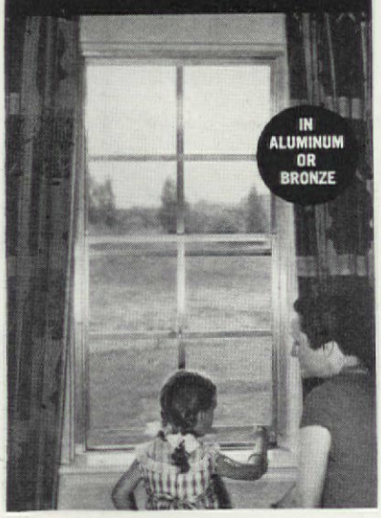

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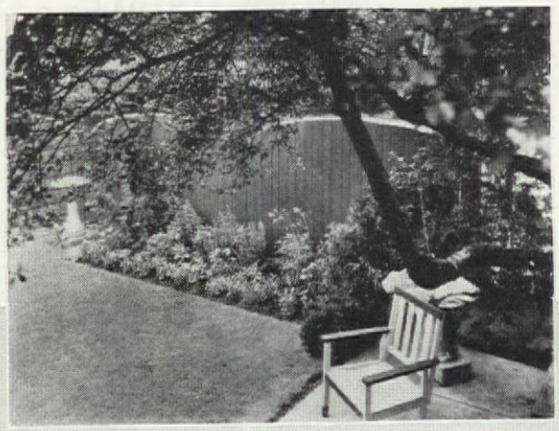
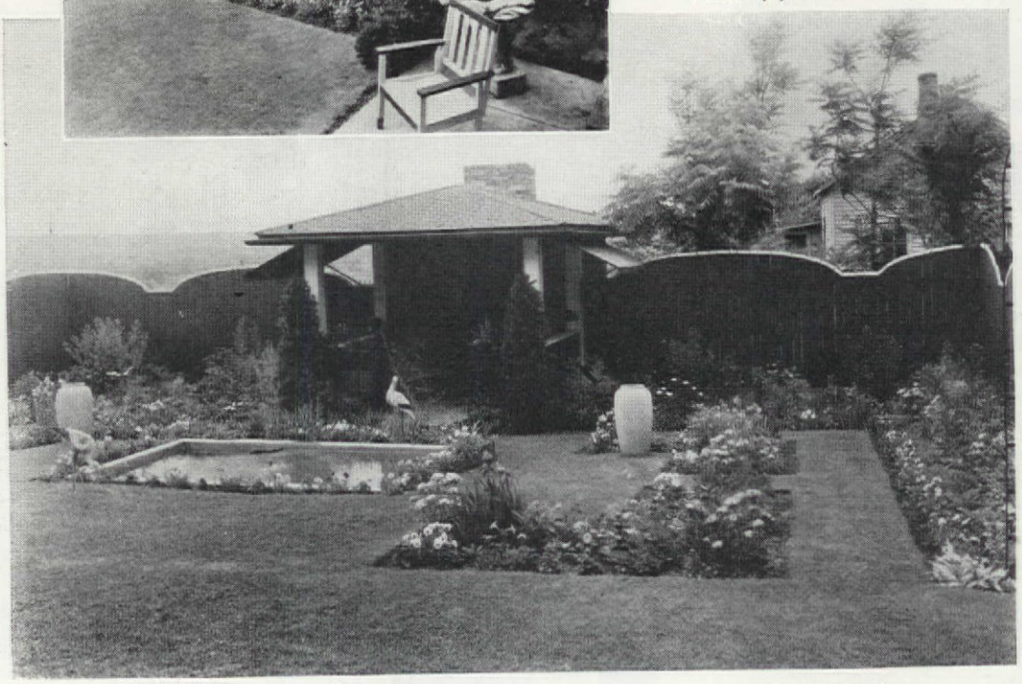
A small garden in Grand Rapids, Mich.



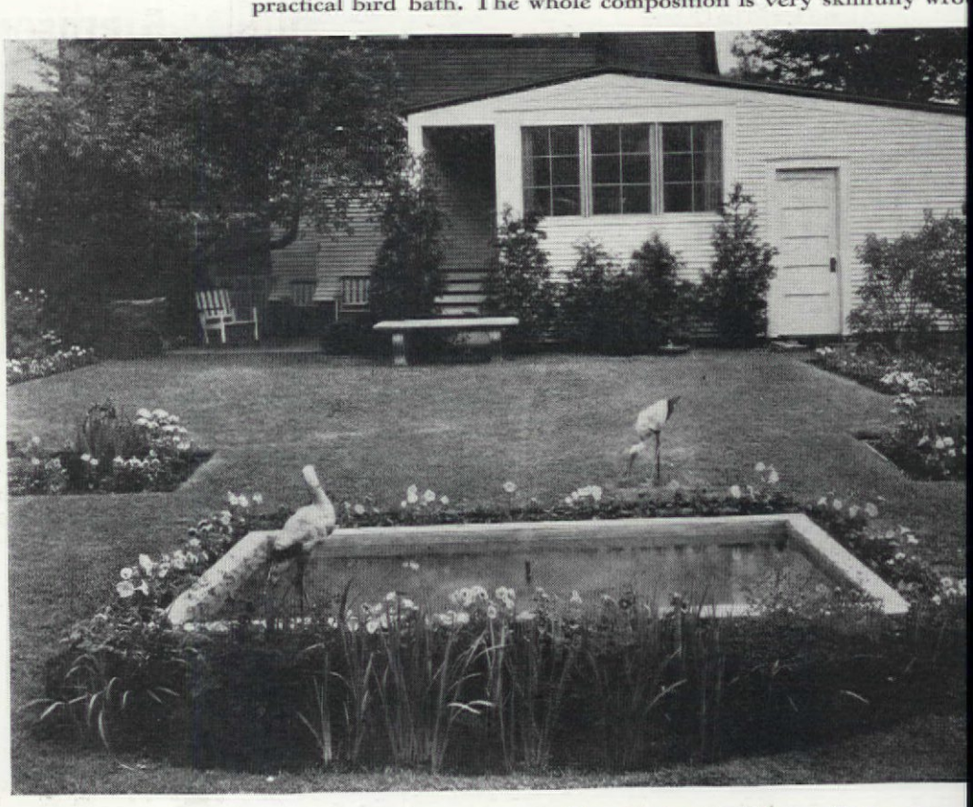
Home of Mrs. Fred Meyer

Photos by Jessie Tarbox Beals



This successful result is achieved by a careful balance of proportions. Everything is splendidly scaled with reference to its associate features. The scalloped edge on the enclosing fence being picked out in white adds atmosphere to this garden

The color effect is well balanced and played for the utmost effective
The shady retreat on the left side of the house, introduced in la
detail at the top, is associated with a friendly little flower border a
practical bird bath. The whole composition is very skillfully wro



Through a Magic Window

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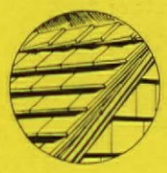

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Our contribution to better small houses

[Illustrated on page 28]

BLEM: To design a dig- small house complete for living to meet the present- ea of costs.

nial types not only remain st popular, but are actu- ining in popularity in sec- uch as South, Mid-West oast, where heretofore -Spanish and poor English were the most common However, in these same s the usual farmhouse or Cod Colonial is not suit- ot only because of the con- the country, but also be- Colonial antique furnish- e not procurable. Hence the ction of color in our house, se sections of the country a stark white house is not le. Hence a design which of more dignified furnish- an is possible in a strictly ouse" design.

resenting this design, THE CAN HOME believes it has nuch progress toward solv- s problem. Thousands of are shown, yet rarely does hich is in the small house neet either the new trend dignity or truly measure the standards required by strenuous family life. All en, the small house falls e "cute" classification or is nned that only a couple children or the need for ormal social obligations omfortably live in it.

AMERICAN HOME has no- very definite swing away cute" houses, the trend first ble in the furniture buying of those who will be even- ome builders. For many he furniture markets have ooded with stunt furniture rmal farmhouse types. For t two years, the more sub- buyers have been steadily g on more formal, more furniture. It follows that safely be depended on as barometer of future archi- tastes, since furniture now is surely intended homes.

ave taken a less hackneyed nan Cape Cod and some informal Colonial types, t only achieved dignity, se of materials have given freshness. It is a Colonial at would not be gaunt or outside of New England, many Colonial types. In of wide pine sheathing, it uired a warmth and color would make it agreeable part of the country except few hot climates, which their own architecture. tour is such that it could y oriented to any part of ntry. These features, we believe, answer a long-felt need for a Colonial house that can be built outside of New England and not be gauche.

Economy has been effected in what we believe to be those things least missed. In building to meet a price, some compromises must be made. All too often the compromise has been on design. Widely advertised creature comforts have sold houses—but any of these fall into the same category as cutting up a floor plan to allow for breakfast nook, etc.

This house is designed to take full advantage of a small suburban plot, allowing the maximum garden space. The garage, as planned, is admittedly not the most desirable, yet it is practical. In most small homes, where two cars are used, one car is driven to the station early in the morning and this is the car that comes in last at night. We should have liked to have had a pantry. In a small house, we believe this to be a luxury that cannot be attained without curtailing on those things which mean more in the long run.

Windows are placed near roof or ceilings to give better ventilation. All windows, doors, etc. of stock design to allow of budget being spent for insulation, heating, equipment and a few good details of wrought iron on garage door, front entrance rail and light. Since simple stock doors and windows are available, it is our belief that these are the places to effect economies and spend these savings on equipment, etc.

No cellar. Heater and laundry room off kitchen for efficiency.

Two baths and a downstairs lavatory provide the maximum luxury in a small house, but are considered necessary in a house where there are children, for in the morning hours one bath is usually tied up and it is especially desirable that a downstairs lavatory be provided for children. There is also a downstairs linen closet for all first floor linens.

The most modern ideas of good circulation, large public or family rooms, and the greatest possible privacy for all, have been kept in mind. The main living and sleeping quarters are on the garden side—with a great expanse of garden space achieved. There is a covered entrance from the garage directly to the house—not through the kitchen, as is usually found. There is access for deliveries from the front, access from the garden in the rear. There is good circulation from the kitchen to the garden or terrace, for the modern desire to eat out of doors as much as possible. The dining room is comfortably large for average family entertaining; and

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Whether your prime motive in buying a piano is to give your children the advantages of a musical education or to make your home more "sociable" and attractive, you owe it to yourself to see Winter & Company's latest developments in fine, yet popularly-priced, pianos.

These instruments have become the sensation of the piano world. Their beautiful appearance, fine tone and low price — due to large production and modern manufacturing — mark a new high in piano values as recognized by teachers, students and leading music merchants everywhere.

No other maker offers you such a variety of fascinating new types and styles: handsome Grand Pianos from $295 ... the smart and now famous "MUSETTES" from $295 ... the new 38" "LOWBOY" from $225 ... Verticals from $149.50 and "The PIANETTE" for only $99.50.*

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Designed for people who appreciate the finest in every phase of living, these beautiful creations provide luxurious close-at-hand convenience — create an effect of entrancing loveliness wherever they are placed. In wide range of exquisite traditional as well as sophisticated modern styles — in variety of types — in fine woods and constructional features — Imperial Tables are unrivalled in the entire field of furniture. Yet they are well within the reach of even the most moderate budget.

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the living room of such proportions as to create several conversational, game or study groups, so that adults and children alike may spend comfortable evenings therein.

These are the general features of our house—those around which the entire plan was conceived. It is in no sense dramatic or "trick" or overstylized. It is the kind of house, in our opinion, which the greatest number of families will consider a thoroughly livable house, retaining traditions which they cherish yet satisfying modern modes of comfortable living. We designed it with the definite idea of doing a house that would really be built. We have seen too many stunt model homes which attracted—but did not sell—to offer the public another. They are anxious to build, anxious to buy. But if they must first "grow up to it" with stunt or stylized furniture, we shall have merely put off the happy day when every reader shall own his or her own "castle."

Outline specifications

GENERAL
The following specifications in outline form shall pertain to the plans drawn for the American Home and designated as Commission No. 522.

PUBLIC SERVICE CONNECTIONS
The contractor shall pay for making all public service connections required for water, gas, sewer, electricity, and telephone.

LIABILITY AND FIRE INSURANCE
The contractor shall maintain such insurance as will protect him from workman's compensation acts. He shall, also, carry fire insurance during the construction of the building.

Masonry

PREPARATION OF SITE
The contractor shall stake out the building and erect permanent batter boards at points where they will not be disturbed during construction.

FOUNDATION WALLS
Foundation walls shall be constructed of stone concrete 12" thick.

CHIMNEY
The chimney shall be constructed of brick from the foundation to the point where it ends above the roof, same to be size and shape as called for. The exterior of the chimney where it shows above the roof shall be faced with stucco, the design to correspond with the drawings.

Locate all flues as called for, same to be of correct sizes.

KITCHEN FITTINGS
Kitchen cases and drawers shall be to detail, with cabinets refrigerator and range.

BOOKCASES
To detail.

EXTERIOR WALLS
First story walls shall be boards with beads as shov elevation.

Second story walls sha flush boards.

ROOF
Roof shall be black slate.

Plumbing

GENERAL
All plumbing work shall accordance with the local where the work is located.

FIXTURES
Plumbing fixtures shall standard grade, such as Company.

Heating

AIR CONDITIONING SYS
The heating system shal sist of a Fox Sunbeam fu or equal, oil or gas fired.

Electrical Work

GENERAL
All electrical work shall b in accordance with local where the work is located.

OUTLETS
Locate all outlets and f where directed.

Install front and rear bells.

Install telephone outlet directed.

Painting

WOOD WORK
Exterior wood work sh painted two coats lead a paint.

Interior wood work sh given three coats lead a paint, last coat part enan

WALLS
Exterior walls shall be two coats lead and oil pai

Walls of kitchen, rear lavatory, and bath sha painted three coats lead paint, last coat part enar

FLOORS
Oak floors shall be giv coat of stain to darken the one coat of orange shella one coat of wax, applied weighted brush.

CHIMNEY
Chimney shall be giv coats of government speci whitewash.

CEILINGS
Ceilings shall be given c of calsomine, tinted to ma woodwork in the various

Flashing

GENERAL
Do all flashing necessary chimney and vent pipes completely water tight jo

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house paint. Made by a pat-
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CONCRETE FLOORS
Floors of basement and garage shall be concrete with cement surface.

FIREPLACE
Living room fireplace shall be constructed of second hand water-struck brick according to detail.
Facing and hearth of fireplace shall be of second hand water-struck brick.

FIRESTOPPING
The contractor shall do all fire-stopping in accordance with local laws.

Plastering

LATH
All wall and ceiling surfaces to be plastered shall be lathed with rock lath, except as below.

PLASTER
All plaster on rock lath shall be gypsum plaster in two coats, and on metal lath as below.

BATH AND LAVATORY DADOES
Walls of bath and lavatory to a height of 4'0" shall be lathed with standard metal lath and plastered in three coats with gypsum plaster.

PLASTER FINISH
All surfaces to be plastered shall be finished with smooth lime putty surface.

Insulation

Side wall insulation: Reynolds Metallation, Alfol, Cabots Quilt, insulating lath, or equal.
Second floor ceiling: 4" rock wool, double layer Reynolds Metallation, Alfol, or equal.

Carpentry

QUALITY AND KIND OF WOOD
All timbers shall be No. 1 spruce or fir.

WINDOWS
All windows shall be as designated on the elevations. Wherever possible, use stock Curtis sash. Where casements are shown, use stock casement sash of wood.

DOORS
Exterior doors shall be as designated on the elevations. Wherever possible, use stock Curtis doors.
Interior doors shall be Curtis six panel doors, sizes as shown on plans.

FLOORS
Floors throughout the house except in kitchen, rear entry, lavatory, and bath, shall be No. 1 common oak, 2¼" face, blind nailed.
Floors under linoleum in kitchen, rear entry, lavatory, and bath shall be slash fir.

LINOLEUM
Floors of kitchen, rear entry, lavatory, and bath shall be covered with medium heavy grade inlaid linoleum, properly cemented down over a felt base.

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Hidden Safeguards

BILDRITE SHEATHING
Bildrite Sheathing has four times the bracing strength of horizontal eight inch Shiplap . . . far more insulation than average lumber . . . lowers application costs.

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For modern inviting interiors —speeds up construction. Two harmonizing colors . . . two surface textures . . . provides the modern soft wall finish for home interiors.

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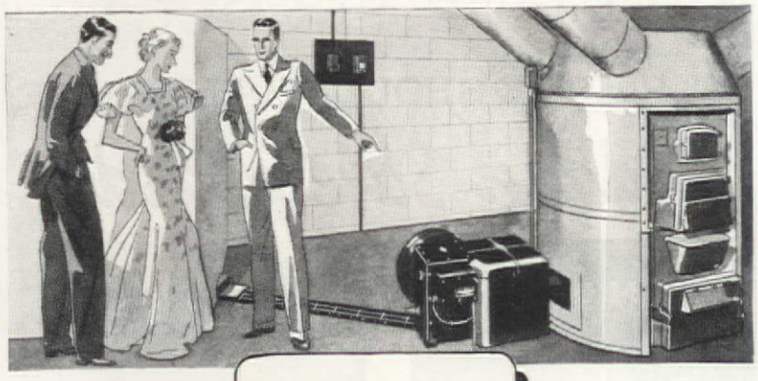

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STOKOL, the completely engineered coal stoker, takes complete charge of your heating plant the day you install it. Stokol automatically fires, feeds, checks and controls it, and accurately meters a steady, even flow of heat throughout your home, as you require it.

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Stokol is automatic heat at its best. It is infinitely more efficient than hand firing. Stokol provides more even and much less expensive heat than is possible with any other firing method. Stokol obviates the back-breaking work of ash removal, with all its attendant dirt and discomfort. No grates to burn out. Moreover, a Stokol stoker will quickly save its modest cost in fuel savings and freedom from drudgery.

Stokol stokers are the product of the Schwitzer-Cummins Company, whose eighteen years of manufacturing experience enables them to serve over 350 manufacturers in various lines. Modern production methods have been applied to Stokol and thereby the highest quality of material and workmanship is combined with lowest possible cost.

Your Stokol dealer will analyze your heating problems and quote costs on any type of installation. The new Stokol bin-feed is the only stoker which feeds from any angle—neither bin nor furnace need be disturbed. Hopper types for all installations. Dealers everywhere offer low cost terms.

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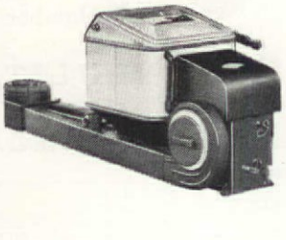
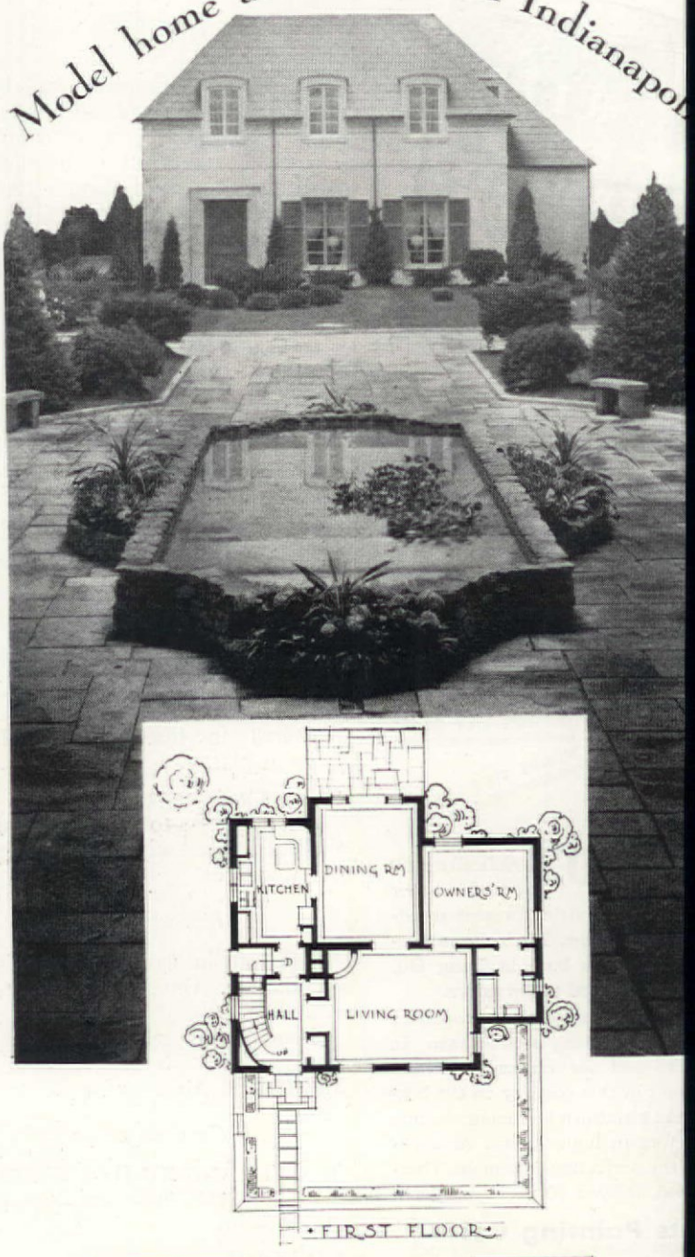
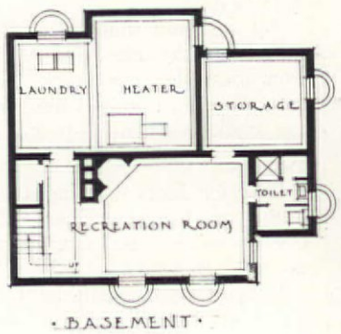
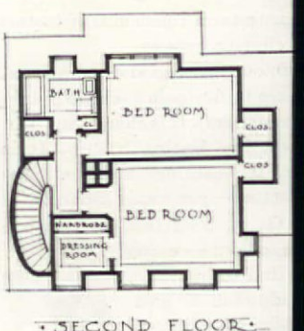


Exclusive Features—Hydraulic Transmission, No Gears, No Shear Pins, Automatic Air Control, Stokostat Hold-fire Control, Stokolarm Automatic Signal and Cutoff Switch. Clean—Silent—Dependable.

Model home and garden in Indianapol







GARDENS were stepping stones to the building industry in bringing before the citizens of Indianapolis and the rest of Indiana the modern American home with all of the pleasing comforts of design and construction together with complete and modern electrical equipment.

Through the coöperation of the Garden Clubs of Indianapolis, the Board of Park Commissioners, and the Allied Florists of Indianapolis, one of the most beautiful group of gardens ever shown in the Middle West was made the decorative center of the In apolis Home Show last spri

American people are inte in homes today and are s an answer to the question just what type of home, ment, and furnishings wou most pleasing and satisfyin Home Complete Expositi fered innumerable practic amples and suggestions t those looking for the answe

So alluring were the g and so attractive the Provincial type Model Ho the center of them, that t

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pression of those thousands who attended the show was that of a non-commercial rather than a commercial exposition. The atmosphere surrounding the model home and gardens so permeated the show that it created an intense desire in those attending to have better homes and gardens, and to seek within the show those things which would contribute to their joy and comfort of living.

As the exposition was a coöperative enterprise, the gardens were put in on the basis of two groups, which blended into one gorgeous display of flowers and shrubs. The Garden Clubs of Indianapolis and the Indianapolis Park Board made ten individual gardens which might be reproduced by any home-owner without too great a financial outlay.

You May Have a Friend

to whom you would like to send the Small House Supplement which appears in this issue. We have reprinted it in two colors, and this sixteen-page booklet will be mailed postpaid for only 10c in stamps or coin. Mail your order to

THE AMERICAN HOME,
251 Fourth Avenue New York

The Allied Florists created a series of formal gardens which were real show pieces, and in which the best of their greenhouse and nursery stock was used in a most artistic and professional manner. On each side behind these gardens was a French garden wall, which gave the entire picture a common background.

The Model Home was designed by George Caleb Wright, chief architectural advisor of the Federal Housing Administration in Indiana. It was a two-purpose house—to be used not only as the centerpiece of the show, but later to be rebuilt in one of the better residential sections of Indianapolis. Construction of the house was a joint undertaking of the Indianapolis Home Builders' Association and the Electric League of Indianapolis.

In the show a number of unique features were included in the architectural design; however, they were so arranged that they could be omitted when the house was reconstructed. These included a "treasure, trinket, trophy" case, in the short passage between the entrance hall and the living room, to take the place of a mantel shelf. The first floor bedroom was designed as a two-purpose room, combination bookroom and guest room, and was called the Normandie room, in that it was designed in the spirit of the state-rooms of the French Liner *Normandie*, but adapted to a home.

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FROM
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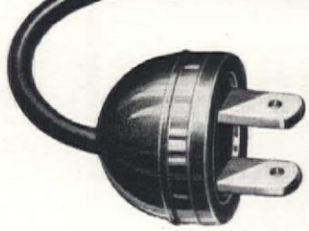

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NOW you can make an electric water heater a *lifetime* purchase. And do it on the most favorable terms ever offered. For prices are reduced on models equipped with Whitehead tanks of Monel Metal.

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Monel Metal is two-thirds Nickel, one of the strongest and toughest of metals. The other third is copper. Neither metal can rust. And so their alloy, Monel, is rust-proof and immune to every form of water-caused corrosion. What's more it is far stronger than structural steel of the kind used in bridges and skyscrapers!

So you bid goodbye forever to rusted tanks, rusty water, and bills for repairs and replacements, when you buy a heater equipped with a Whitehead Monel Metal tank. It is guaranteed 20 years, and will probably last a life-time.

It is made of the same Monel Metal used in kitchens and pantries of modern homes for sinks and work surfaces such as cabinet tops and tables.

Ask your electric light company or Electrical Dealer for prices on the proper size Monel-equipped water heater for your home. Or write to Whitehead Metal Products Co. of New York, Inc., 304 Hudson Street, New York, N. Y. for all the facts.

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Monel Metal is a registered trade-mark applied to an alloy containing approximately two-thirds Nickel and one-third copper. Monel Metal is mined, smelted, refined, rolled and marketed solely by International Nickel.

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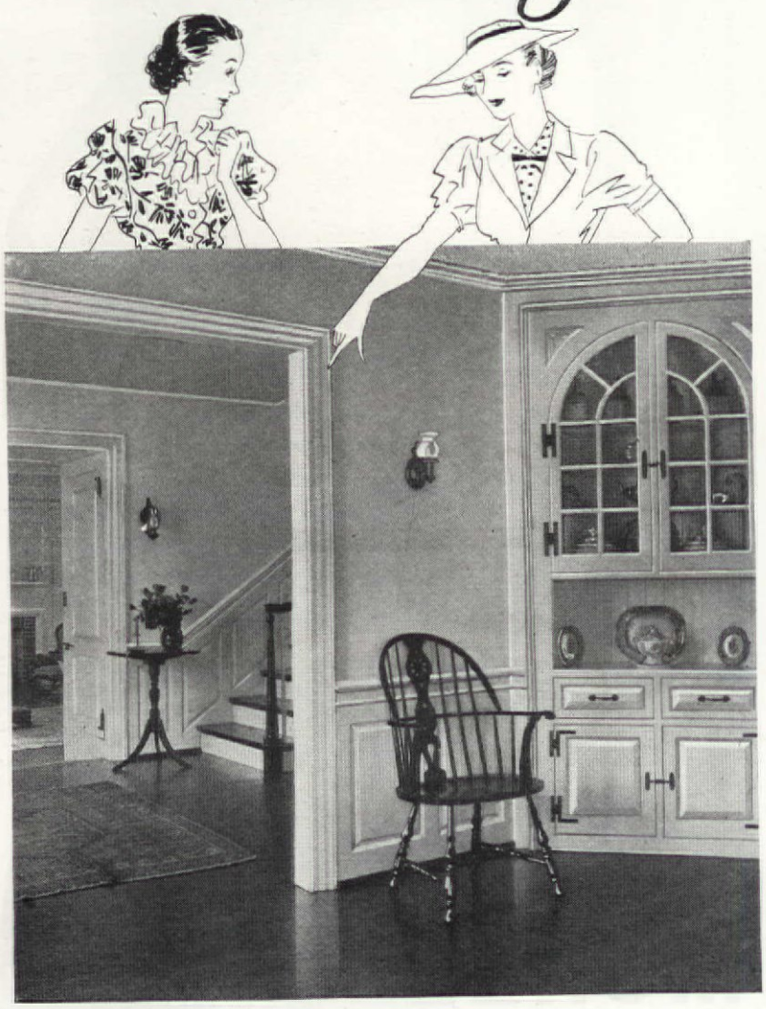

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Please send complete information on how to select, lay and finish NOFMA Certified *OAK* Floors.

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The corner fireplace in the living room with its painted crest is typical of the French Provincial. The wing chair is covered with red cotton corduroy which picks up the color of the flowers in the hall wallpaper. The curtains in cotton chintz complement the colorings in the furniture covers

To carry out the quiet refinement, the walls were in horizontal panels of mahogany, and the ceiling of squares of insulation board. In the kitchen the rounded breakfast corner was emphasized in an effect to get away from the awkward, costly, and little used breakfast room. This corner consisted of a built-in upholstered seat with glass top table which could be utilized both as a home "office" or work table in the preparation of larger meals. This corner had unique feature entirely new kitchens, a mural painting occu ing the entire wall space ab the breakfast seat.

From a home standpoint, French Provincial type lent it admirably to modern living quirements and possibilities.

Curtains of copper gauze, with ruffled trim of brown taffeta, frame th picture of the garden seen through the doorway of the dining room. Ove the yellow leather breakfast seat in the all electric kitchen is a mural paint ing in vivid colors. The breakfast table is metal with a yellow glass to

the entrance hall a slightly c stairway rose almost airily t second floor. The living roon a little more square than

ving the effect of roominess. As e center of interest, in the cor- r was a circular fireplace with mantel shelf but, instead, a unded hood sloping back into e ceiling corner.

The bathroom was designed to rve as a combination bath and essing room. The passage from droom to bath was lined on th sides with clothes closets, in- ding trays for shirts, shoe racks, at hangers, and other comple- entary equipment. Behind the sin in the bath there was a full- gth mirror. Black glass shelves r toilet articles flanked the mir- r. The walls were of light green e with a darker green tile floor r contrast. The tub had a shower mbination for completeness.

French doors in the dining room ened out on a dining terrace, ck garden, and outdoor living om. To emphasize this effect, the lls were curved into the French ors, and on the walls an outdoor nic, French wallpaper was used. ing a cumulative effect of ex- nsive living.

In answer to the age-old desire reduce culinary pursuits to a nimum of effort, an all-electric chen was installed, which in- ded an electric range, dish- sher, ventilating fan, refriger- r, mixer, toastmaster tray, rcolator, and a number of other ces of convenient electrical chen equipment.

The exterior of the house was pure white painted brick, the y decoration being in protrud- brick courses and gray-green tters on the living room win- ws. From the black slate roof re protruded round-headed rmers, properly proportioned. r permanence, copper flashing, tters, and metal work was used. e house was a brick veneer type, h insulation board being used ween the brick and the wooden me structure. In the rear of the se the only decorative effect s an interesting piling of roof s, unusual in detail.

Leading through the gardens l around the house was a flag- ne walk, in the center of which s a large pool stocked with ne fish by the Indiana State partment of Conservation. is feature attracted consider- e attention with its spoonbill fish, large bass, perch, and er fish native to Indiana rivers l lakes.

Throughout the commercial dis- ys an atmosphere of a high- de department store was intained. All of the exhibits wed the effect of unusually d design and decoration, which entirely complimentary to the ducts on display. All types of ding materials and supplies, sehold furnishings, and equip- nt were displayed with an sually inviting appeal, and ex- itors reported that the public response to the displays was enthusiastic, keen, and very definite.

As a background of this most interesting Home Complete Exposition, which is contributing so much to the American home, are the organizations of which it is composed. These are the Architects Association of Indianapolis, Construction League of Indianapolis, Electric League of Indianapolis, Allied Florists of Indianapolis, Garden Clubs of Indianapolis, Indianapolis Chamber of Commerce, Indianapolis Home Builders Association, Indianapolis Park Board, Indianapolis Real Estate Board, Material and Lumber Dealers of Indianapolis, and the Indiana State Board of Agriculture. The show was one of the National Home Shows held in coöperation with the Federal Housing Administration. In all respects the Indianapolis Home Show, which celebrated its Fifteenth Anniversary of continuous existence this year, is the major annual civic event in Indianapolis, the "cross-roads of America."

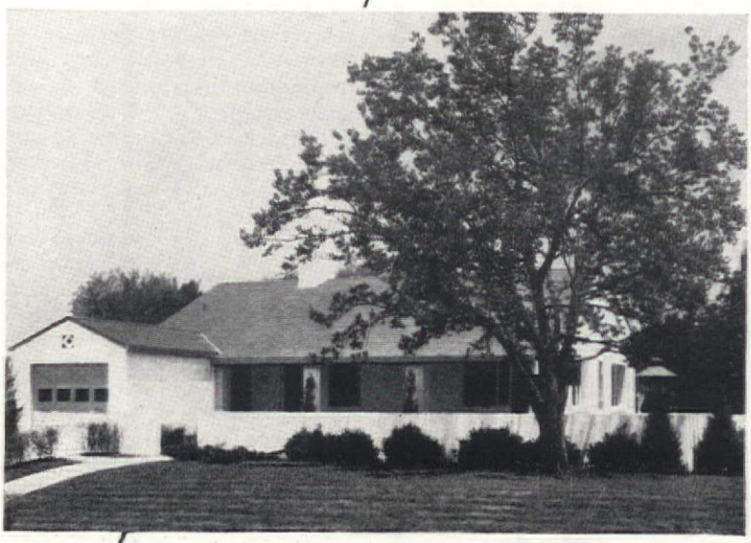
We furnish a five-room house for $1200

[*Continued from page 15*]

In the living-dining room, the long wall common to both is yellow, the shade shown on the frontispiece, as is the short dining room section wall opposite. The other walls and the ceiling are just off white, a little on the gray side, matched with the trim. Starting with yellow and off-white, shades of green and brown were added to make a colorful and varied scheme. All these tones are combined in the chintz window curtains, two upholstered chairs are in yellow and brown and off-white rough fabric, the sofa is of green with yellow and brown and off-white, the dining room chairs are done in off-white, and both brown and green are used in the broadfelt floor covering. The strips under the dining table and living room group are brown, that in the path of traffic a rich, dark green.

The furniture is of the familiar maple, designed along modern lines. It is sturdy, strong, and simple enough to have a wide appeal. Certain pieces were essential for the use of the imaginary family of two adults, a son and daughter, the intended occupants of the house. A dining table and four chairs were the minimum, and for good measure we added two arm chairs, upholstered like the side chairs, which can be drawn up to the table when there is company, or into a conversation group, if that is desired. All these pieces are more or less isolated in the dining end

The Firesafe Concrete Home at the Texas Centennial. Bubi Jessen, Architect



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"All you need to know about PAINT"

of the room, and do not interfere with the grouping of living room furniture at the other side.

The first thing to do in arranging this living section was to create a focal point of interest since there was no fireplace to serve that purpose. The three maple-framed reproductions of fine examples of the modern French school of painting do just this — Matisse' "The Checker Players," and Gauguin's "The Flower Bouquet" and "Two Girls," hung side by side along the wall. Next, we selected a comfortable, big sofa, covered in a green home-spun type of material with yellow and several beige-to-brown shades and placed at right angles to the wall. A coffee table is a comfortable adjunct in front of this. Opposite, to complete the grouping, we placed a pair of arm chairs upholstered in a yellow tweedy type of fabric, with browns and whites, separated by a convenient table. As the photographs show, the sofa grouping, in a manner of speaking, is framed on two sides with sofa-height sectional bookcases, adequate for quite an extensive library. Set a little apart from the conversation group is a flat-top desk with its own chair. This arrangement, it seems to us, provides room for the family to sit and read or write or just talk.

For the master bedroom we selected simple modern furniture in brown walnut, and a color scheme of off-white walls, white chintz with a design in soft greens, browns and rose tones, and a carpet in what is known as cedar, a brown tone with a rose cast.

The daughter's room, facing north and west, has yellow walls, and metal furniture painted terra cotta and gray. Bedspreads are tailored in a cotton stripe in green, about the shade of the carpet, light terra cotta and yellow. For curtains, hung simply from rod to sill, sheer cotton gauze in terra cotta with a rough nub in white is the material.

Red, white, and blue is the color scheme of the boy's room, with its double-decker beds and other furniture in maple. A bright, dark blue dado is topped by off-white wall, the rope patterned wool fiber rug is in the same blue, while bedspreads and curtains are of bright red cotton dress goods bordered with white cotton rope trimming. Since the room is small, a chest of drawers with a top desk section was selected to fulfil two purposes at one time.

While presumably there will be but one occupant in each of these rooms, we have put two beds in each for two extra guests.

Kitchen and bathroom are very simple in decorative scheme. Both have off-white walls. Blue and white adhesive linoleum on the bathroom floor is balanced by a blue ceiling and there are b cotton voile curtains at the w dow. Green adhesive linoleum used in the kitchen, with da green cotton curtains to mat

At the time of going to pr it could not be determined j when this house and its furni ing will be open for inspect by the general public.

We quote below the items cluded in the house and their tail prices at Lafayette, India In most cases the merchandise credited to the manufactur whose product can be purcha in your local furniture or depa ment store.

THE AMERICAN HOME takes t occasion to express sincere gra tude to Reifer's Furniture Sto in Lafayette, Indiana. While lighting fixtures were not inclu in the furnishing budget, it is teresting to note that $25 was lowed for the eleven needed the house.

Living room

Two Broadfelt rugs from Clinton Carpet Co., one of brown heather and dark green combined, one of brown heather, a total of 20⅝ yards $3
Modern American maple furniture from Conant Ball Co.:
Trestle table 2
4 side chairs upholstered in off-white leatherette @ 9.00 3
2 arm chairs upholstered in off-white leatherette @ 16.50 3
Buffet 4
4 bookcases @ 13.50..... 5
Coffee table 1
End table 4
Desk 4
Sofa, upholstered in home-spun type fabric..... 5
2 chairs, upholstered in home-spun type fabric @ 29.50 5
Curtains — 18 yards chintz, Atkinson Wade & Co. @ 59¢ 1
3 sets hardware @ 1.98.....
3 wooden poles @ 10¢ a ft...
5 pictures, reproductions of modern French paintings from R. H. Macy & Co. @ 1.99 .....
Matisse, "Checker Players"; Gauguin, "Flower Bouquet"; Gauguin, "Two Girls"; Degas, "Dancers"; Toulon Lautrec, "Cafe."
4 lamps, Rembrandt Lamp Corp.:
Desk lamp .....
2 bookcase lamps @ 10.75... 2
Floor lamp .....

$47

The accessories could not be cluded in the budget, and loaned for the purpose of the ph graphs. The items and their p are as follows:
2 green vases @ 1.25.....
1 square white bowl.....
1 pair castus book ends.....
Copper scroll book-ends from Revere Copper & Brass, Inc. .....
Copper accessories from Chase Brass & Copper Co.:
1 bowl .....
1 pair candlesticks .....
1 ashtray .....
2 ash trays .....
1 cigarette box .....

$

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about
Conditioned Water

• Conditioned water in your home would make life happier and easier for him as well as for the feminine contingent. The Mr. would notice how fresh and clean his skin felt after his morning shower . . . how much better his shave went . . . the better flavor of his breakfast coffee.

But he can't know half the joy of conditioned water unless he also washes the dishes, does the cleaning and scrubbing, launders the clothes.

Conditioned water is now within the reach of every family. Permutit . . . world's largest makers of water conditioning equipment . . . provides a simple installation for the home. It costs only about two cents a day for up-keep and thirteen cents to cover the time payments under the FHA plan. And even this small cost is repaid by the many savings. Send for free booklet.

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Address.....
City..... *State*.....

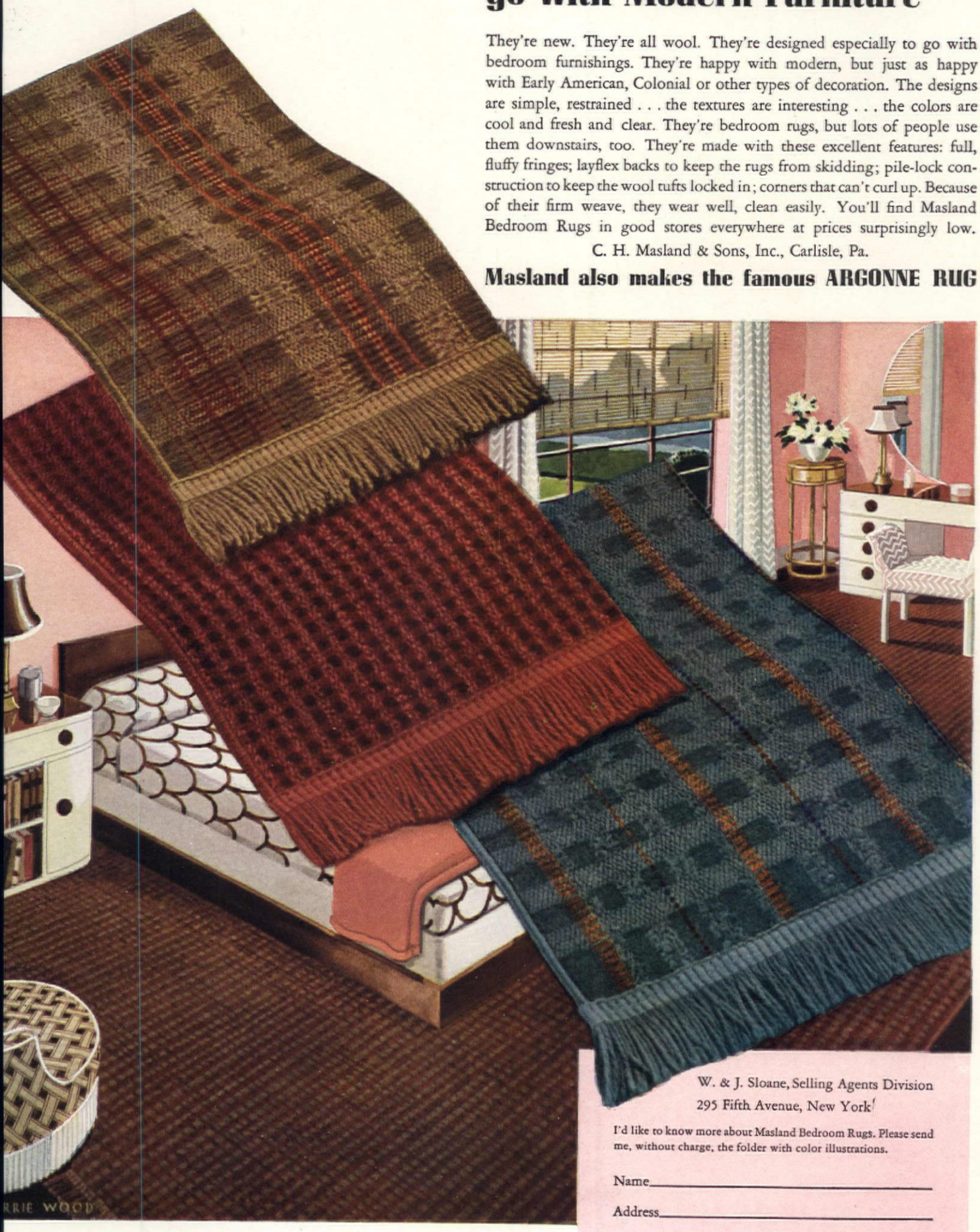
MASLAND *Bedroom Rugs*

go with Modern Furniture

They're new. They're all wool. They're designed especially to go with bedroom furnishings. They're happy with modern, but just as happy with Early American, Colonial or other types of decoration. The designs are simple, restrained . . . the textures are interesting . . . the colors are cool and fresh and clear. They're bedroom rugs, but lots of people use them downstairs, too. They're made with these excellent features: full, fluffy fringes; layflex backs to keep the rugs from skidding; pile-lock construction to keep the wool tufts locked in; corners that can't curl up. Because of their firm weave, they wear well, clean easily. You'll find Masland Bedroom Rugs in good stores everywhere at prices surprisingly low.

C. H. Masland & Sons, Inc., Carlisle, Pa.

Masland also makes the famous ARGONNE RUG



Illustrated: TOP, Mossgrain (pattern 25-C); CENTER, Textura (pattern 16-N); BOTTOM, Mossgrain (pattern 21-C); on the floor, Super-Textura (pattern 016-F).

W. & J. Sloane, Selling Agents Division
295 Fifth Avenue, New York

I'd like to know more about Masland Bedroom Rugs. Please send me, without charge, the folder with color illustrations.

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For AMERICAN HOME READERS

The American Home Menu Maker was devised by the Editor and is, we believe, the first practical recipe idea ever offered by a magazine.

It is an all-steel cabinet, supplied in any one of four colors, and with it comes a supply of Cellophane envelopes in which to file your recipes. This means that the recipe may be in daily use if need be, but it is always fresh and clean. The envelope of Cellophane makes the recipe visible and is, of course, washable.

With the Menu Maker goes a complete set of indices, consisting of a complete classification of all foods under which to file your recipe, and an index covering the days of the week to permit you to plan your meals well in advance. The Menu Maker is a sensible, workable recipe file, developed by a practical housewife from actual experience and a knowledge of your needs.

As a service to our readers and to get the widest possible distribution, the American Home Menu Maker has been priced to barely cover manufacturing and carriage charges of the box, the Cellophane envelopes and the indices.

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84 Recipes and Envelopes

The Editor recently went through all recipes published in The American Home and selected those she thought worthy of a permanent place in our Menu Maker. In addition she has supplied us with personal favorites from many years' culling and sampling.

We now offer the Editor's Favorite Recipes—84 of them—and Cellophane envelopes to hold them, postpaid for only 60¢. If you have the Menu Maker and want these Favorite Recipes, send only 60¢ in stamps, and if you are ordering the Menu Maker, add 60¢ and get the complete service.

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I am enclosing $1.00 for the complete Menu Maker in Blue, Black, Yellow, Gree
(check color), this to include 50 Cellophane envelopes, indices, etc.

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Add 25¢ if west of the Mississippi, in Canada or U. S. Possessions. AH 9-3

Master bedroom

or plan rug, Alexander	
ith & Co., 9′ x 10′ 6″—	
or cedar	$36.00
ern walnut furniture—	
exel Furniture Co.:	
le bed	24.50
er with mirror	35.50
	32.50
nt stands @ 8.00	16.00
chairs @ 7.20	14.40
ins—11 yds. chintz @	
—Titus Blatter & Co.	8.25
tain rods & fixtures @	
	.50
read—5½ yds. printed	
n @ 59¢—F. Schu-	
cher & Co., Waverly	
	3.25
per sanitized mattress.	19.75
per box spring	19.75
	$210.40

Daughter's room

C. H. Masland & Sons	
x 9 Mossgrain—green.	$23.00
furniture—The Sim-	
ns Co.:	
beds @ 19.75	39.50
er	44.00
r—24″ round unframed	6.75
stand	14.75
	17.50
ins—7 yds. Congo cloth	
34¢—New York Twine	
p.	2.38
hardware @ 25¢	.50
read—12 yds. Grena-	
stripe @ 69¢—Pacific	
ls	8.28
per sanitized mattresses	
19.75	39.50
per box springs @ 19.75	39.50
	$235.66

Boy's bedroom

g—Deltox Rug Co.—	
e 6 x 9	$10.00
le decker maple bed—	
wers Brothers Furni-	
Co.	28.35
ngs @ 5.95 — Foster	
thers	11.90
x 72″ layer felt mat-	
ses @ 10.00—Columbia	20.00
chest—Stiegel Funiture	
	20.00
irs @ 3.50—Haywood	
kefield	7.00
r—Nurre Glass Co.	5.00
in—4 yds. cotton dress	
ds @ 39¢	1.56
read—12 yds. same	
erial @ 39¢	4.78
ming — Consolidated	
mming Co.:	
s. cotton rope @ 12½¢	
curtains	.75
s. cotton rope @ 12½¢	
bedspread	2.00
	$111.34

Bathroom

ins—3 yds. blue cotton	
e to match linoleum at	
	$1.05

Kitchen

ment—Magic Chef Gas	
ve: American Stove Co.	$66.00
eral Electric Co. Re-	
igerator—Model L K 1	84.50
ins—2¾ yds. cotton	
s goods @ 39¢	1.07
en table	5.85
en chair	2.75
	$160.17
ndow shades for entire	
se—Columbia Mills @	
	$9.80
RAND TOTAL	$1,197.33

The house that Nancy built

[*Continued from page 37*]

asked to do was hold her hand in death . . . Perfect babies, but oh, so tiny! "Nancy, say a *pray* for my Del Rose . . ."

Nancy has always extended a welcoming hand to the stranger within our gates, and countless wistful waifs of foreigners have found the lights of Column House a beacon in the fog of their rudderless drifting. There's welcome on the mat, and if Tony or Griselda, Henryk or Johann can't spell it, they can sense it.

The hopeless man in his late sixties, his spirit gone with his job. His wife's letter has a heart-stabbing thrust in it. She asks what old people do when everything is swept away? She signs herself "Ma" and puts her prayer into verse lifted to poetry because it carries in its poignant lines the heart of a good wife torn by the silent weeping of her beaten man.

Her letter was published in the Column. The next morning brought an envelope with a fifty dollar bill folded carelessly into it, with no message but the words, "For Ma" and the signature, "Sincerely," on a piece of plain paper. A few days later the old folks were on a bus headed for "Pa's" new job and renewed happiness.

"Ma's" prayer poem went right to the heart of a city reputedly hard-boiled. In consequence many a business man came home to relate how he had "gone sappy" that day and hired an old codger who had been standing in line for weeks and weeks.

"I got to thinking he might be 'Pa'," he'd grumble. "Now you quit reading that Column!"

There were old men in town who had stumbled on ways of eking out a living, or at least enough to keep the spark of independence alive in their sturdy old hearts. Letters telling the way they did it were printed in the Column, giving workable suggestions for the aged.

A master peddler, assuring Nancy that he was "on the up-and-up" and had managed large crews of canvassers, offered to stake some old man to a peddler's pack, with practical advice on selling his stock. Nancy, in thanking him, told of her patronage of house-to-house sellers. The honest peddler found the bread he cast upon the waters returning in such quantities that every brother peddler got a crumb. For soon a whole city of Column housewives was smiling at the humble peddler on its doorstep—and buying a kettle-cleaner just to please Nancy!

And so this circle curved clear around the town, aglow with that

Test it for destructive grit this easy way: sprinkle a little cleanser on the back of a plate and rub with a coin. You'll detect the presence of grit by a harsh, scratchy sound. Then try the same test with Old Dutch. You'll hear no grinding or scratching because it's the one cleanser that does not contain scratchy grit.

Old Dutch offers an amazing opportunity to secure Wm. A. Rogers A1 Plus Quality Silverware

Send today for this lovely Silverware in the beautiful "Croydon" pattern, specially selected for its smartness and style. Made and guaranteed by Oneida, Ltd. You may have your choice of 11 different units comprising a complete set of this fine silverware.

$1.25 Value for Only

50¢

OLD DUTCH CLEANSER, Dept. S254, 221 N. La Salle St., Chicago, Ill.
I am enclosing_____windmill panels from Old Dutch labels (or complete labels) and_____¢ for which please send me

☐ 6 Teaspoons ☐ 3 Oval Soup Spoons ☐ 3 Tablespoons
☐ 3 Salad Forks ☐ 3 Butter Spreaders ☐ 3 Iced Drink Spoons
☐ 1 Cold Meat Fork ☐ 3 Oyster Forks ☐ 1 Gravy Ladle
☐ 1 Dinner Knife and Fork ☐ 1 Butter Knife and 1 Sugar Spoon
☐ Round, Pierced Server

(This item for 25c and 2 Old Dutch labels)

You may order any one of these units or as many as you like. Remember, each unit requires 50c and 3 windmill panels from Old Dutch labels (or complete labels). **Offer good only in the United States and Canada and expires July 31, 1937.**

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New Deodorant... QUEST 100% Effective on Sanitary Napkins!

Now there's no excuse to be guilty of the "Unforgivable Offense!" The makers of Kotex bring you a new deodorant powder named *Quest* that offers *positive* protection from napkin and body odors!

Quest is 100% effective, even on hottest days! It assures all-day-long freshness, yet it does not irritate the skin, clog the pores or interfere with normal body functions.

Try Quest today, for the personal daintiness every woman treasures. Use this soothing cool powder on sanitary napkins, after the bath, to stop perspiration offense. It is unscented, which means it can't "give itself away," can't interfere with the fragrance of lovely perfume. Quest costs no more than other kinds... only 35c for the large two-ounce can at your favorite drug counter.

QUEST

for Personal Daintiness

personal friendliness that makes all the difference between organized charity and the lift of a neighbor who cares.

Column House, since the beginning, has done things in a colossal way. The Family has always had an exuberance that carried any activity it sponsored to a breath-taking peak. In 1929 "Andy" had a bright idea. How about giving Nancy forty acres of young pines as a little souvenir, and thus start reforesting the sad, seared acres of Northern Michigan. Letters and money poured in, and continued to pour in until *five hundred and sixty acres,* instead of the proposed forty, had been planted with young pines.

The following year it was "Solveig," a favorite Column writer, who had the bright idea. Why couldn't the Family have a little party at the Detroit Institute of Arts? The fame of that party will go down in the annals of Detroit. *Thirty-five thousand* people attended it—or rather, tried to! Next morning thousands awoke to the fact that they had an Art Institute. Until then it had existed —except for a few art-minded members—as a remotely beautiful building which one vaguely thought the visiting country cousins should see, although finally one took them to the Zoo! But now the Family had a personal interest in it. It was for them.

And this time it was "Doctorette" who had an idea. The pine forests of Northern Michigan, she pointed out, were so far away. Why not a remembrance near enough for all to see? "I suggest," she wrote, "a picture to be dedicated to you, Nancy, and hung in the Art Institute; and I enclose my contribution."

The nickels, dimes, and quarters again poured in. Many of the Columnites, having no regular allowance, earned their contributions by making cakes or candy and selling to friends. One did her own week's washing and donated the cost. Another sold flowers from her garden, another a prized recipe.

And in the course of time, with the picture fund reaching hundreds of dollars, Nancy and Mr. Clyde Burroughs, Secretary of the Institute, after a canvass of the galleries of Detroit and New York, selected ten paintings that met the approval of the directors. These were hung in a designated gallery at the Institute, and for four weeks the Column folks visited them and cast their votes enthusiastically for their personal choice.

The Family's excursion into the realm of music was at the invitation of Mrs. John S. Newbury, President of the Board of Directors of the Detroit Symphony Orchestra. Times were bad and economy budgets had no place for Symphony Concerts. The celebrated orchestra sorely needed a boost. So Mrs. Newberry other members of the Board to *The News* office and ma formal request that Expe Column sponsor a series of certs to be given on six conse Saturday evenings at Orc Hall. The programs were clude favorite numbers select Column writers, and the co were to be especially intend the Family.

This was an idea from o the Column. There were Detr who wondered if Nancy's would respond with as muc thusiasm as they showed wh idea sparked at their own h Would they coöperate? they? The Column went m just as ardently as it had arty! Members began jo saving for their tickets, or e them. The choice of suitable tions became the all-engr Column subject. And when had picked their programs, critics doffed their hats to Had they not chosen as favorite number the "Unfi Symphony," that flawless ever loved masterpiece, Schu Symphony in B Minor?

Musical Detroit still speak bated breath of those C House audiences. "Immense! exclaim. "Balcony sold out before the concert began. came in droves. Finally we packing them in, standing the fire limits. And then t them away by hundreds! Q people. Knew their music!"

Immense, too, are the when the Family goes to c It takes them a month of Su —litera!ly—to attend! The umn Chaplain, Dr. Edga Witt Jones, has them come phabetical sections accordi the initials of their real but even so, each grou exceeds the seating capac his large church. And whe Jones goes touring Palestin fond Family accompanies thought and word. At Jeru last summer, he received the total of five hundred letter them in one mail!

I like the "Wings" the "Cup o' Tea," a Columni had attended an Easter p and been uplifted by the e beauty of one of the angels tableau. Then he had overh woman say, "Yes, wasn't she tiful? And just think, she her own wings!" Whereupo shining thought had come that we all have to mak own wings, and Column H the place where the Fami best make theirs.

I know an elderly, once perous couple who lost all crash, not only their mone fair-weather friends, but beautiful home, their pric joy. Now they lived in housekeeping rooms in a

rhood. For weeks I tried
e myself to meet the pitiful
the eyes of the regal, silver-
little dowager, the hurt
was shown in his.
ly I went to see them. To
wilderment I found them
almost gay. He went mar-
she cooked. They were ad-
themselves nicely to their
d quarters. Really, in a
t was amusing. Would I
r tea?
e the fine old gentleman
ne for rolls, she took a
itten paper from between
es of her Epsicopal prayer
"He copied it for me," she
d, "from the clipping he
n his watch case. It's what
us . . . not to care."
ok the paper to the tiny
to see it better, and read:
ly ever needs to lose a
It may be that he's about
a house, but that is some-
ntirely different. A home
of that indefinable some-
hich surrounds a group of
who live together in mutual
espect, and consideration;
particular kind of an edi-
t covers it is unimportant."
smiled the proud lady we
call the Duchess, "we
lost our home—"

the teacher!

ued from page 41

so that he could move
ly. He found a kind of
tion in this. It was pleas-
tand against them all. The
ad grown until no adult
thority over him.
nately for me and for
knew the mother and the
efore I took on the job of
g him. Had I not had this
ge I, too, would have been
onscientious with him, and
faction would have grown
sing my will. I felt wholly
netic with Bruce. It isn't
oy who has the strength
his will when ringed about
voted adults who are de-
d to direct, not to spoil
is mother and I decided
was our job to find the
self, and to do it casually.
st treat him as a person
d a right to choice. We
e merely friendly, never
moved when he was stub-
Ve must divert his stub-
s, his negative strength, to
creative activity.
as much harder for his
than it was for me. She
change her way of treat-
boy at home. She had to
he habits of all the adults
. She came often to stay
hours while Bruce and I
Sometimes she would talk
ly with us, sometimes sit
so quietly that Bruce completely forgot she was actually there.

Talking with Bruce I asked him this and that. What did he like to do? Nothing. Of course every boy liked to read. He didn't. Had he read this book, another one? Yes, mother had read them all to him. I told him about games I liked, asked about new rules in playing them. No response. Had he been to Scotland? Yes, he was born there. He liked Scotland!

I blessed geography and dug up my books on Scotland. We went from Scotland to other countries, and from geography to other studies. He began at last to take pride in hard work. I began to give a few suggestions, and cautiously a few commands. His mother, carrying on as carefully at home, was completely happy that our plan was working. Bruce was a "different child." He had been lonely in his stubbornness. The new self was more satisfying.

This was no triumph for my teaching. It was a triumph of friendliness between two persons, a conscientious mother and a conscientious teacher, whose over-urgency might have strengthened the perverted will to oppose authority, might have set the habit of breaking the law. We knew that criminals could be made by over-urgent adults. Working together as we did we helped Bruce, working separately we could have done little for him. Too, we were able to work the better because we had begun by knowing and trusting each other.

Aside from the benefit to your own child there are other good things that will come of your knowing the teacher. She has intimate knowledge of community problems, burdensome ones. They aren't problems you can discuss in Parent-Teachers' meetings; they concern her children, Mary and Johnny, and their families. Because the children are in trouble, the teacher knows that there are mothers in your neighborhood who are neither preaching nor practicing goodness. The teacher's responsibility for these children is second to that of the mother. There is no work in the world so disheartening as that of trying to build character on the insecurity of a home without righteousness. It is work that every teacher has to do, whether she be teaching in poor or in wealthy communities. The times that you can share her heartaches and her work may be few, but her courage at least will be higher if you stand by.

Sometimes we who are teaching lose courage to the extent of questioning our own idealism. In a convention of teachers in New York City not long ago someone asked, "Are we helping the children when we teach idealism that is not being taught in the homes?" No one could answer the question;

See if the Shade You are Using Is Really the Right One for You!

By Lady Esther

You're pretty sure about the shade of face powder you use, aren't you? You're quite certain it's the right shade for you.

What would you say if you were to find out it was the wrong shade entirely for you? Don't be so sure that this isn't the case. As any artist or make-up expert will tell you, many women use the wrong shade of face powder entirely. The result is, they look years older than they really are.

The reason so many women use the wrong shade of face powder is that they select their shades on the wrong basis altogether. It's a mistake to select your shade of face powder according to your so-called "type". You are not a "type". You are an individual.

One Way and Only One!

There is only one way to tell your most becoming shade of face powder and that is to try on all five basic shades. Any other method is only theory and guess-work.

To make it simple and conclusive for you to ascertain your right shade of face powder, I have invented a game called: "Find Your Right Shade of Face Powder." It's as enlightening as it is fascinating. Here's all you need do: Just send me your name and address and by return mail I'll send you all five shades of my Lady Esther Face Powder, free of charge. Take the five shades and sit down before your mirror. Start with the shade you think least suited to you and try that on. But don't stop at any one shade. Go through all five and observe the effects in your mirror in each case.

You don't have to be any seer to recognize instantly that one of these five shades is more suited to you than any other. You will see immediately that one shade, more than any other, makes you look your youngest and most attractive. What that shade is, neither I nor anybody else, can tell you. You must see for yourself.

A Surprise May Be in Store for You!

Maybe the very shade you think least suited to you, the very one you would never think of using, is actually your most becoming shade. Thousands of women have been amazed with the results of this test.

Decide today that you are not going to be in the dark any longer as to the shade of face powder you should use. Decide today that you are going to know once and for all which is your most becoming shade. Mail the coupon today and play the game that tells—my game of "face powder shades."

(*You can paste this on a penny post card.*) (25) **FREE**
Lady Esther, 2054 Ridge Ave., Evanston, Ill.

Please send me by return mail a liberal supply of all five shades of Lady Esther Face Powder; also a 7-days' supply of your Lady Esther Four-Purpose Face Cream.

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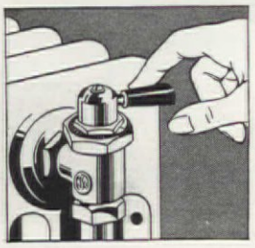

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Hoffman Controlled Heat permits room-by-room temperature control. At the touch of a finger on the lever of the Radiator Modulating Valve, the heat output of that radiator can be increased or decreased without affecting the temperature of other rooms—or the air conditioning process. Thus, bed rooms can be kept at 65°, living room at 72°, kitchen at 68°, or any other degree desired.

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we could say only that consistent building of character in the home and at school was good.

Parents who know the faults of the schools could well reverse the question. How great a service are you doing your children to implant ideals that are trampled at school? Surely you have asked yourself that question?

It is by means of constructive discontent with the schools that we can work toward improvement. The few parents who see the faults must work with the few teachers who are courageous enough to fight "The System" from within. The Public School System threatens to become too machine-like, too big a thing, too smug in its bigness to work with an individual. The end of good teaching is obscured in the giving of standard and state tests, in the preparation of multitudinous reports, in the concern over methods to instruct the average. There is too much surface, brilliant teaching to impress supervisors and boards of education. "The System" prepares a mold into which the individual is poured, and the teacher who works within "The System" finds it hard to remember that no personality fits the arbitrary pattern of the average.

You and the teacher must make sure that the educator has time and freedom to educate, to develop each child according to his inherent pattern. So, now that September is here, take time to meet the teacher. Take time to know her. Make sure that she really knows you.

"But teachers won't meet us halfway," you complain. "They think we are trouble makers when we talk to them about o lems with our children."

When do you go to the When school is opening a are a hundred things fo do? In the afternoon school lets out? When who need her attention ing for her? At Parent- meetings when everybody tering and elbowing? Y make time for friendly ance with your child's t

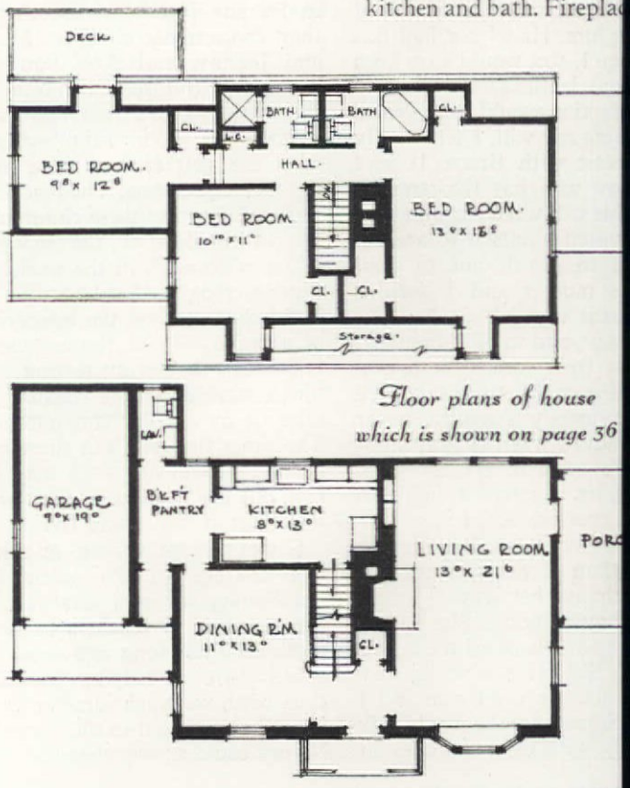
Arrange for a conferen the teacher has leisure. can be so gracious, invit tea or ask her for luncheon. Take time for talk, build a real acqu The teacher will meet y than halfway in that. S congeniality, if it exists, itself aside in your need together. If you know th and show a willingness with her, she will work t for it. With coöperative ness to weld aims and your child will grow in So, too, will other chi helped.

Colonial retains fi place in Eastern s

[*Continued from page 36*]

painted or stained, and sheathing paper or shin Wood gutters, window frames, shutters, and trin painted three coats with Weather-stripping and i

Interior: Oak floors a stair, treads, stained. Lin kitchen; tile in lavatory rooms. White pine trim, and paneling painted. walls, papered in all roo kitchen and bath. Firepla



Floor plans of house which is shown on page 36

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The sixteen-page, two-color form of small houses appearing in this issue has been reprinted in booklet form and may be had separately for only 10c. Enclose stamps or coin, and mail to

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of wood and brick, brick hearth. Window shades.

Electrical work: B x cables; toggle switches; brass fixtures; double convenience outlets.

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Heating: Steam; oil burner; hot water heater; automatic regulators.

Hardware: Interior and exterior, of brass with black finish.

The other residence shown on page 36—that of Mr. McLeah A. Brule—had a construction cost of $9,120. This included four-inch rock wool insulation side walls and ceilings, slate roof, full concrete basement, and General Electric oil burner.

Your good friend —the toad

[Continued from page 53]

the earth, destroying all vegetation, and leaving man to starve, if it were not for the fact that they form the chief food of reptiles, small animals, and our feathered friends. And of all the destroyers of insects harmful to mankind the old green garden toad is among the most valuable, for things harmful to vegetation constitute at least seventy per cent of his diet.

The value of the toad as an insect destroyer will be more readily appreciated when it is realized that the toad eats four times the capacity of its stomach during the course of twenty-four hours. And it is no mean capacity that Mr. Toad has, either, for under observation one consumed twenty-four medium-sized gypsy moth caterpillars in the course of one morning. Another toad closely watched consumed thirty full-grown celery caterpillars in less than three hours, while a third ate ninety rose bugs as fast as it could swallow them, and at the end of the meal appeared to be still hungry and ready for more.

Though the economic value of the toad is not visioned by the average person, farmers appreciate the worth of this ugly little creature. As the result of a careful study, the Department of Agriculture has concluded that every toad is worth nineteen dollars and forty cents, based on the destruction of cutworms alone, eaten during the months of May, June, and July. This valuation of the toad was established by reckoning each cutworm to be worth one cent, since each cutworm destroys approximately one cent's worth of vegetation. When all other destructive insects eaten by the toad are added to the cutworms, the commercial value of this batrachian becomes unbelievably large.

WANT PERFECT HEAT
In Every Room?

HOLLAND Guarantees It

See This Demonstration

It reveals amazing advances in warm air heating—shows you why HOLLAND alone guarantees you 100% satisfaction—NO OBLIGATION.

Every Detail of Planning and Installation Under Direct Supervision of Holland's Own Engineers

THE heating of your home is far too important to risk any chance of failure. Why gamble when, at surprisingly moderate cost, you can have a HOLLAND heating plant fully *guaranteed by the maker to heat every room exactly as you want it?* There can be no failure, for Holland's own factory trained engineer makes a thorough analysis of your home room by room—plans a system to meet your special needs under all conditions and personally supervises installation by HOLLAND trained mechanics. The result is a saving—not an extra expense—cold rooms banished forever—lower fuel costs—utter freedom from costly repairs so inevitable when furnaces are too small or improperly installed.

3 YEARS TO PAY

Why not find out how easy it is to own a HOLLAND heating system and how much it can do for you? Get in touch with your local Holland factory branch and ask to see the fascinating miniature furnace demonstration pictured above. See with your own eyes the exclusive patented features that mean so much in added comfort and heating efficiency at lower fuel costs. Ask, too, about HOLLAND'S own easy financing plan—up to 3 years to pay—no excessive charges or prohibitive interest rates.

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Every HOLLAND installation is accurately planned by HOLLAND'S own factory trained engineer after scientific room-by-room analysis. No chance for anything but complete satisfaction.

Installation made by HOLLAND'S own trained mechanics under direct personal supervision of the factory's heating engineer. Additional assurance of perfect heat in every room of your entire home.

New-type air conditioning at slight extra cost can be added to your present warm air heating plant. Gives you year 'round comfort at remarkably low price. Fully guaranteed by the manufacturer.

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SAFETY STRENGTH

The life history of the toad is an interesting one. In every section of the United States from north to south, and from east to west, the toad exists in one form or another. The common toad can be found throughout the Middle Western and Eastern States, and is found as far south as Louisiana, Georgia, and Eastern Texas.

When the warm sun and balmy breezes soften the earth around the first of April, the toads emerge from their winter hibernation and proceed at once to the nearest shallow pool. It is not at all unusual to find hundreds of them congregated about a small pool during the mating season. Their eggs, laid in the water, may number anywhere from four thousand to fifteen thousand. If the water is warm, the hatching period is from three to eight days; if there is a cold snap, it requires from eight to twelve days.

Born in the water, toads spend their early life in a fish-like state, breathing by means of gills. Then the time required for the natural transformation of the tadpole to a toad varies between fifty to sixty days. Growth is slow, however, and is not fully attained until about the fourth year.

If the weather is moderate, toads are active from the end of March to the middle of November, at which time they hibernate for the winter months. The process of hibernation is most unusual and interesting, the toad making a burrow with its hind legs, and going down backwards, the hind feet possessing a spur which is of assistance in the digging. As the toad descends, the dirt falls in over its head. Toads "dig in" below the frost level, and experiments have shown that they quickly go deeper if an unusually severe winter sends the frost far into the ground.

When the long shadows tell that the heat of the day has gone, these tailless batrachians climb from beneath boards, stones, or leaves and venture abroad in search of food.

It was probably this nocturnal habit that suggested to men of bygone days the belief of the supernatural in the toad. The night to those ancients was a time when magic ruled, and, naturally, the activities of the horny, ugly toad after dark, when most living creatures were resting, were most conducive to thoughts of sorcery. The eyes of the toad are very bright, and that probably gave rise to the fantastic belief that there was a precious jewel secluded in the head of every toad.

The skin of the young toad is smooth like that of a frog, but as it grows older, the warts begin to appear. Even the country boy today will promptly tell you of the dire results of picking up a toad —the immediate appearance of warts on the skin. The toad actually has poison glands from which a poison is secrete this poison is not harmful t It is really an acid which ir the membranes of the mo any animal trying to consu toad. A dog always remembe bitter taste of the creatur will never touch a toad a time. Skunks eat toads, bu said that they roll them ov over on the grass, removi the poison before eating Various reptiles and large of prey eat toads, appa oblivious to the "poison." N ing endowed with the sam tective powers as their young hop-toads are co prey for ducks, chickens guinea fowls.

Like crows, toads live for and, like pigeons, they have markable homing instinct. have been frequent examp toads living in gardens for than thirty years, and it i known that on numerous sions, when they were pick and carried away from thei lar place of habitation, promptly hopped back wh leased. In comparison of s cat, dog, nor carrier pigeon greater homing instinct. It lieved by scientists who studied the habits and life toad that to mate it alwa turns to the pond in which first given life, and that returns year after year to th shelter and feeding ground.

While the toad may b erally described as a ter creature, it is often found and not infrequently in, s or shallow pools. When face the problem of sustenance, t is distinctly a creature of Peculiarly, dead or mot food holds no interest for th but it will consume any insect it can possibly swallo tongue is attached to the f the mouth, and is free behin tongue so shaped, permits i flung forward, and the ob attack quickly carried bac the mouth, particularly in throat. The tongue of the covered with a sticky muou ing to which the insect stic once it has entered the m the toad. Oftentimes when sect is too large to be swa comfortably, the toad will front feet to aid in pushi victim down its throat.

True to a reptile charact the toad sheds its coat—in i several times a year. Whe time for the old coat to sp toad goes off by itself, and skin does not peel off ea hastens the operation with of its front legs. When the off, the toad frequently co it partly or entirely.

Unfortunately, for the ga and farmer, the interestin very helpful toad is not s mon in fields and gardens

LLOGG'S *Catalogue*
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Holland where find tulips on y hand and den shoes on foot we have rted this very g "Gift That ws." A real h shoe, packed with two Dutch tulip ready to start growing. —— 85c

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merly. In fact, in some sections, toads are become extremely rare. Severe cold winters and droughts in summer kill them off, this being caused by the fact that young toads do not burrow deep enough for hibernation. The enemies of this little creature make their presence known at every stage of its career. The water beetle's appetite will account for several thousand toad eggs a day, and newts, salamanders, and fishes also eat the eggs. Naturally, the sudden drying up of a pond will kill hundreds of tadpoles. And when little Johnny hop-toad leaves his aquatic home for dry land, he faces many new enemies. The barnyard fowls eat young toads, and owls, hawks, snakes, crows, and skunks eat the mature ones.

Nature provided the toad with the ability to combat its natural enemies, but the added adversities to the problem of existence provided by man is taking its toll. Countless numbers of these helpful little creatures are killed along country roads by passing vehicles. Then, too, the burning over of fields, the cutting of woodlands, and cultivation always destroy a great number. Unfortunately, small boys, and even adults, not to exclude some unthinking gardeners, kill toads with a sense of performing a necessary duty. There probably is no more maligned creature on earth.

Being so ugly and unattractive, the toad has become the unfortunate object of many fantastic and curious beliefs that have had their foundation only in man's imagination. That the toad would produce warts, if the creature were handled, is a story that has been firmly believed for centuries. Children tell you that if you kill a toad and lay it on its back, it is sure to rain before night. Many a country mother will assert that the breath of a toad will poison an infant. Among prevalent superstitions are those that if a cow steps on a toad while returning from pasture, the cow will go dry; it brings good fortune to a new home if a toad is found in the cellar; and that oft heard story that a child can be cured of stammering if a toad is rubbed on the back of the child's neck. All of these are general superstitions, but there are many others of a local character.

However, in spite of natural enemies and the havoc wrought as a result of man's imaginings, there is little likelihood of the toad disappearing from the woods and fields of this country. Students of conservation and agriculturists are well aware of the value of this batrachian, and know that toads must be kept in abundance. While the adult toad will hop away when placed in a strange locality, the young toad emerging from the pond in which it was hatched immediately makes the locality its

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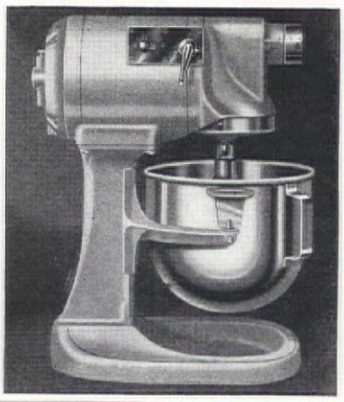

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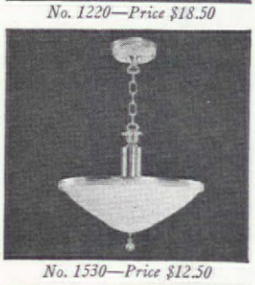

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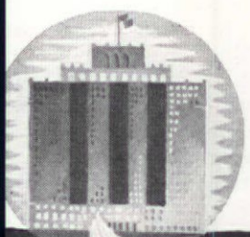

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own, and stays there the duration of its life. Farmers have been buying toad eggs in Europe, and raising toads in their own localities. American agriculturists are wide awake and the practice is not going unadopted in this country.

Your old friend, the toad! But few of us are aware of the fact that we err in making the little fellow an object of aversion, never realizing that the toad should be classed as a friend to man.

American pattern glass

[*Continued from page 48*]

scattered but unbroken pieces for their owners by the perfect matching of colors, blue, red, amber, and green.

Sandwich glass is noted for its brilliancy due to the use of barytes in the batch, and much of it has a ringing tone. The Sandwich Company had such a ready market for their wares that they had no need to advertise, and we find no catalogue of patterns such as have been found from other factories. There is a rumor that they kept a pattern book. What excitement its rediscovery would cause! A bowl was made there for Daniel Webster for which a special mold was cut. Collectors are still hoping to run across this treasure in some forgotten corner.

The very names of the patterns are in themselves delightful: Bellflower, a ribbed pattern with a drooping flower pressed on it; Ribbed Palm, also ribbed with a palm leaf; Petal and Loop, The Ashburton, and Diamond and Thumbprint; Cardinal Bird, called by some The Jay Bird; Tear Drop and Tassel, Stippled Forget-me-not; Frosted Stork found in clear and frosted glass with the same bird adorning them all, a curious fellow perched on the top of the sugar bowl; Bleeding Heart, Beaded Grape, Stippled Ivy, Ivy in The Snow, this being an ivy vine on a stippled background; Daisy and Button, Curtain, Dew and Raindrop, Buckle and Star, Hobnail, Hand, Jewel and Dewdrop, Heavy Jewel, Jenny Lind, Baby Face, Three Face, Thousand Eye, Westward-Ho (with an Indian on the top), Liberty Bell, and many, many more.

Some of the small pieces may be identified by their names which are descriptive. Sensitive fingers find a difference in the feel of old glass. Those who know agree that there is a soft satin-like texture, or perhaps better described as a greasy feeling, about old glass.

Some districts have been combed bare of old glass, especially along the great automobile highways where tourists gather up everything in sight. imitations are now displaye this calls for care on the p the collector. Also the kno of what the glasshouses of are imitating is a help in not to buy as antiques.

"Carefulness is the mot the china closet" is an old saying, and truly the car which glass has been ha gives us today literally tho of small, dainty glass dish quaint treasures to search their hiding places all abo The pictures for this arti all of small pieces gathered the great automobile hig through the South during t two years. Some came antique shops; others fro tions of household goods, second-hand stores, or friends; and many of the discovered in out-of-th farmhouses. Many of the been given to the Negro were located in their small Some they would not par on account of their sentim the giver. Besides these we goblets, satin glass va heavenly blue with superi flowers, wine sets, perfume and doll dishes.

Let the beginner collec beauty as a guide.

It is impossible to do mo arouse interest in the subj at least to make each of u careful and more appreci the little bits that have fa our share by inheritance acquisition—or both.

Trapdoors to treasu

[*Continued from page 49*]

just hanging in a long hall too silly! I would decorate make it interesting and a as well. The Burma sha vertisements one sees alo highway almost everywh Southern California, inspi jingle. The ladder is pain same color as the hall, the on the rungs are of cit brown. The gay Chinese-re with yellow-green and blu leaves and stems somewha the effect. After I had pain peasant flowers around th frame, I surveyed my har with paint dripping from bows and was happy ind the whole effect was excep pleasing.

Next, the attic was floor with cheap, rough lumb electric light was added. N do is to stand on a near-b unhook my ladder, dash something away, dash dow it up, look as innocent as p knowing one more treasu fectly worthless to every me, is safely hidden awa

It has become the perfe

for my articles. The family is irritated no more and the whole thing cost so very little. The ladder always intrigues our guests and lately when someone seems especially interested I conduct a tour into these sacred precincts.

How a new rose is made

[Continued from page 171]

the amateur does not know how to go about the procedure. Perhaps the present pictures will supply that need!

First, the worker must be familiar with the structure of the floral parts of the Rose. The pollen grain, carrier of the male element, when it comes in contact with a receptive stigma on a pistil sends out a tube-like structure in which male cells (sperms) are developed. The tube grows down through the stigma and style of the pistil and into the ovary, where it discharges its sperms to complete the fertilization of the ovule, thus combining the characters of the parents in a single cell, which finally develops into the embryo or germ of the future Rose seed.

After the female parent has been selected, attention must be given to the buds which are to be used for crossing. The bud is "taken" when the petals begin to loosen but before they open and expose the pistils and stamens of the flower. The petals are then removed and after that the anthers with tweezers. The pistils are now exposed. Frequently it is advisable to permit the pistils to develop for several days in order that they may be in a receptive condition to receive the pollen. Then put a bag on the prepared flower. Buds from the chosen pollen parent are selected just before they open. The petals are removed and the unripened anthers are stripped off into a small glass petri dish, pill box, or other similar container where they will ripen and discharge their pollen in about twenty-four hours at a temperature of 70 to 80°F.

Apply the pollen to the pistils by touching the tip of the finger to the pollen dust and then applying it to the pistils. In changing from one pollen to another the fingers must be cleansed with alcohol to prevent pollen mixture. After the pollen has been applied it is then necessary to protect the pistils from contamination with foreign pollen, carried by wind or insects, by covering the flower part with a small bag. Glassine, waterproof Cellophane, or common paper sacks may be used. A record of the cross may be made on a stringed tag, and attached to the flower stem. The bag may be removed after it has been on the flower for a week or ten days,

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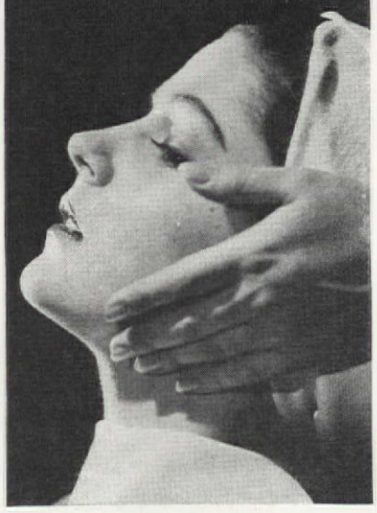

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and then the breeding record tag will mark the location of the crossed hip. The length of time required for Rose hips to ripen varies with different varieties and species. When the hips begin to turn yellow or red, they are gathered and the rose seed extracted.

It is rather difficult to germinate Rose seed. Best results are had if the seed is stratified in a mixture of peat and damp sand and held in this medium for a period of about five months at a temperature of 40-45°F. Some Rose breeders plant the seed in the fall directly into outside coldframes or beds to let seasonal freezing and thawing act on the seed. Another way is to place the seed in a medium of moist peat and sand in small, wide-mouth bottles. These bottles are then placed in a mechanical refrigerator which hold a rather constant temperature of around 45°. As the seed begins to germinate the sprouted seeds may be removed from time to time and transferred into flats and grown in a heated frame or greenhouse until the seedlings are large enough to transplant to pots.

There is nothing very difficult about the technique involved in Rose breeding. The disappointments may be many, but the rewards, although few, will compensate for the time and effort which the amateur gardener and potential plant breeder may devote to the hobby of Rose development and breeding.

Roanensis comes down the mountain

[*Continued from page 40*]

the sandy loam of Nik Nar, the Clement woodland and hillsides. Here at an altitude of twenty-two hundred feet the rare and the ordinary grow side by side in the most gregarious manner. Here Sedum rhodiola roanensis is treated with no more respect than a clump of wild Geraniums crowding near by, yet roanensis is the treasure, the pride of the whole collection. Far from handsome or exotic in appearance it thrives in a pile of field stones. Mr. Clement looked at his achievement and said, "It's the only Sedum that grows with its feet in water. That's how I knew where to hunt for her."

With its thick, blue-gray leaves and its summer flowers of reddish clusters, it is at home here though its real habitat is The Roan, great mound of a mountain, towering into the clouds, torn by lightning, swept by storms, dreary with low-hanging mists, or else unbelievably serene and bright under the sunlight falling across the North Carolina and Tennessee line.

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*MEATS FOR INSTANCE! TRY PORK AND RICE DINNER PAGE 48

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Mr. Clement knew of the exi
ence of this Sedum only throu
botanical records almost a hu
dred years old. Not one sing
plant, in actuality, was where
could be touched or seen. T
records had mentioned The Roa
towering sixty-three hundred fe
above sea level, as a treasure la
of plants. The Clements and
mountain boy, packed for cam
ing, toiled up this mountain a
began looking over rugged cli
where a seepage of water soug
deeply buried crevices. If you a
him, "Is it true that Mrs. Cleme
and the mountain boy tied a ro
around you and swung you do
several hundred feet and kept y
dangling till you spied roanensis
He smiles and answers nonco
mittally, "I told the mounta
boy to look for a little old Hou
leek." At all events, this ra
Sedum was rediscovered and b
tanical gardens from all over
world began writing to Mr. C
ment for the little plant wh
had successfully hidden hers
for a century. "They cut off
limb of a valuable tree in
New York Botanical Garden
he tells you, "because roanen
wasn't getting enough sunlight
That shows its importance.

From this same mountain, T
Roan, Mr. Clement has brou
another treasure; though
quite as rare as the Sedum, it
far more beautiful, Leiophyllu
commonly known as Sand-myr
or Sand-heath. This Leiophyll
(L. dendrium prostratum) is
sturdy, evergreen shrub, wh
clings close in mounds like h
socks under the Spruces a
Rhododendrons. Though its dw
stems and trunk are extrem
tough and sturdy, the flowers
of the daintiest, giving a mass
infinitesimal pink buds and flow
during the end of May and l
into June. It is an exquisite thi
a prize for any garden, and
will, without too much reluctan
become acclimated in regions
from the small area of its mo
tain home. L. hugeri, its broth
is taller and not so rare, the bl
soms white. This plant grows
profusion on the high ridges
the Linville and Grandfat
Mountain section.

Mr. Clement claims that his
turns instinctively towards L
ville whenever he and his wife
pear at the garage with lunch a
digging paraphernalia in th
hands. The mountains at Linv
are cut by a deep gorge, hold
in restraint a wild, foam
stream. Natural gardens cling
the rocky peaks above and
kept moist by mountain mi
Here, in profusion, grow seve
species of Rhododendron incl
ing the clear pink carolinian
which comes to bloom so ea
Laurel clings to the most p
carious of footholds and va
from white to coral. Flame A

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lea takes every shade of red and orange and yellow imaginable. Though the shady places are matted thickly with Galax leaves, flowery spiked in summer and bronzed after frost lays its hoariness across the gorge, there is still room for a great variety of Orchids and an enormous intrusion of the more common woodland flowers.

Table Rock above Linville gorge towers as a landmark for as far as the eye can see, and for long had been a temptation to the Clements. "Table Rock," scoffed Mrs. Clement, "it looks so flat from below but when we reached the top after an awful climb, we found a region of mammoth, warty stones among which we stumbled and scrambled hunting for plants." But patience is sometimes of greater advantage than venturesomeness in increasing plant collections. She added, rather wistfully, that it takes seven years for the Spider-lily (Hymenocallis) to reach flowering from the time the seeds are planted. At Nik Nar there are several fine specimens of this plant, collected, Mr. Clement tells, with much difficulty since he found each growing separately miles and miles apart. They are described by their possessors as "the aristocrats of all native plants with gorgeous, white flowers in a spidery effect, and with rare fragrance."

Both Clements acknowledge that they have a "feel" for the habitat of certain plants. This causes them to stop their car, sometimes in the most unpromising looking places, and dart off across the fields, or more often scramble up some forbidding cliff, eyes open for a smudge of color in the green, nostrils alert for a characteristic scent. The treasures found, they say, without surprise, "Well, it just looked as though they might possibly be growing there."

The Great Smokies have given these two flower lovers a splendid collection of Trillium; fourteen different kinds are thriving in their woodland. "Of course, we have to get permits to dig plants on government property, however isolated and inaccessible it happens to be. It is very tiresome, when we have a paper which allows us to take out a dozen or so of certain plants, for us to come across some very rare thing for which we have no permit. Sometimes we have to wait months, sometimes longer before we can find our way back."

Mrs. Clement went on to tell of the difficulty caused by some plants that disappear entirely after the blossoming season or take deceptive forms. She pointed to the Crane-fly Orchid (Tipularia unifolia) which does not commit itself definitely to a collector. The

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stalk of purple flowers in summer is gone before winter's green, purple-lined leaf appears. And there are others just as elusive.

She speaks more fondly of her Trilliums than of any other plant. Fourteen is a splendid family about which to boast. There is one which produces double flowers, a self-evident rarity. On one blossom of her treasure she counted twenty-four petals and the very name of the flower cries out, "three, only three!"

"Trillium discolor, our rarest, is a mottled rug under a spreading tree whose curving roots hold a bed of loam. Its petals are broadly spatulate, one always cupped, its foliage mottled, green and cream. Then there's the proud beauty, vaseyi, dark purple petals on a gracefully curved stem, and rich green leaves. I stood waist high in a bed of them on the Smokies. These may never reach that height, but they are good, don't you think?" Mrs. Clement asks, reaching forth with a delicate finger to lift a flower that you may look deep into its heart.

Her Painted Ladies (T. undulatum) have expressions as saucy as Pansies, pretty pink markings on a white face. Trillium catesbaei is just as lovely, with a shy, nodding twist to its head, T. hugeri has mottled leaves and deep purple, fragrant flowers; luteum's blossom is yellow, its leaves splotched, too, and it boasts of rarity; simile, "very showy and handsome," possesses a brown ovary unlike the well-known Snow Trillium (grandiflorum) whose white petals in dying fade from pink to a pale lavender. Some hold their blossoms upright like a cup; some peep out from beneath their leaves; some give their faces to you boldly; some nod sleepily beneath the wing-spread of their foliage. Each and every one of them, rare or widely known, is an asset in any wild flower garden.

What is a rare flower?

Mr. Clement gave his definition of rare, "One might say a flower is rare when it's not commercialized." Flowers unusual to one place are common in another. Mertensia along a river bank in Virginia might be considered common as Daisies, yet let one stray beyond its sectional boundary and someone is sure to announce to the world a new find. A great bed of yellow Lady-slippers is not uncommon in the mountains of North Carolina within walking distance of Nik Nar, and yet, two keeping company alone in the hills of New Jersey are something to marvel over. Buy a ten-cent package of Larkspur and plant a yardful for yourself, but search hillside after hillside over a wide area and you might never come across its kinsman, wild del-

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phinium (D. tricorne) pur blue and tuberous. The Clem compact little bed of this p is one of their prides and a t of beauty as it appears year a year. Not far distant is a sp of gold, dwarf Coreopsis p scens, with a flowering perio the entire summer. This was result of a long search.

The Clements look with re ence upon Shortia galacif which they list also as Oco bells. The botanist, Michaux 1788 found the plant in the So ern mountains and describe though no specimen was bro to captivity. For years it ha only existence for naturalists record on paper. Not till after long periods of unsucce searching, it was rediscover North Carolina. It has roun leaves and lovely little white on six-inch stems, and seemi enjoys the homes the Clem have given it among less histo plants. But it represents to t what they take such pleasur doing—searching out the ones, proving to the world with care, these may be grow any wild flower garden, and come the willing possession anyone who has "green fin and a love of the outdoors.

Nik Nar has a contributio the world. Botanists, collec horticultural gardens both and abroad, send to Biltmor specimens. And this is the tri to the Clement gift of findin rare, the unusual, of nurtu them, increasing them, giving a home and sometimes a n One specimen may be some to gloat over, but a dozen wi shared by the thousands come to marvel and to lea such centers as the New Botanical Garden, or that o University of Switzerland. T ures from North Carolina now growing in twenty-seve ferent states and this was possible through the period c climatization under the l care of the Clements.

Plants feel at home here. beds on the sloping hillsid as casual as the unexplored w of mountain ranges where th no eye to watch, no hand to tect a struggling seed fro intrusion of a great tree. An flowers seem to realize what pected of them. Little paths in and out among fully thirt ferent ferns; logs fall away rich mulch by the crisp ste the Showy Orchid; stones c shadow against the burnin where Viola striata holds its cacy upright; noontime lic bright tongue where the cannot fall and lo, there i gold of Coreopsis, the azu Delphinium, the iciness dozen Sedums! Hundred strangers from the woods brought within the sweep of

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GARDEN FACTS and FANCIES

Leonard Barron

THESE September notes are written in the month of June. It is particularly apropos at this time that the survey of the Peony picture be made so that gardeners may in their Peony plantings in this ideal month make their selections or additions from the outstanding varieties that have carried off the prize honors for others. If you would win prizes in the shows, there is a great deal in growing prize winning varieties. As in recent years, our special Peony correspondent, Mr. Edward Auten, Jr., reports:

Peonies in the Limelight

Blooms from Minnesota, New York, and Massachusetts captured most of the prizes at the 1936 show of the American Peony Society at Toronto June 21 and 22.

The American Home Achievement Medal for the best new seedling was awarded to Col. J. C. Nicholls of Ithaca, N. Y., for the variety named Mrs. Livingston Farrand, for the wife of the President of Cornell University and well known in garden club circles. It is a deep, very brilliant salmon pink Double. The variety Walter Faxon has been frequently mentioned as the finest of the pinks, of a shade never even approached, let alone equalled. Mrs. Livingston Farrand is not only of the true Walter Faxon color, but is definitely superior. It received also a Silver Medal of the American Peony Society. Only the fact that stem is not strong prevented it from receiving the Gold Medal.

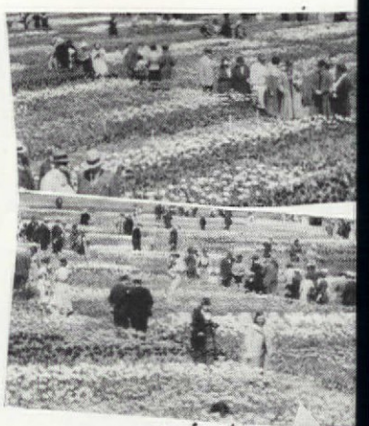
The award of the B. H. Farr Medal for the best bloom in the show developed into what might have been called the "Battle of St. Paul." On first vote of all the judges, a bloom of Mrs. J. V. Edlund grown by Mr. C. W. Bunn of St. Paul and staged by Mrs. A. S. Gowen of St. Paul tied with a bloom of Hansina Brand grown by Mrs. Gowen, with three scattering votes for other kinds. Narrowed to these two Minnesota varieties, the final vote showed nine votes for the white Double, Mrs. J. V. Edlund, and eight for the light pink Double, Hansina Brand. Both blooms were well worthy of the award, two superb varieties shown in all their perfection by two expert growers, the final choice being merely one of personal preference.

Mr. A. B. Franklin of Minneapolis received the Boyd Memorial medal for a large display of his own originations, both named and under number. Mrs. Franklin D. Roosevelt, a large pink Double, Charm, a tall dark red Jap, and A. B. Franklin, a white Double and previous Gold Medal winner, received special notice from the Seedling Committee. Snowball, a medium sized white Double was outstanding because of its fine formation and extra heavy substance.

The Gold Medal class for 100 varieties, one bloom each, was won by Mr. Harry F. Little of Camillus, New York. Mr. Little has won this class at four shows and has never been defeated, high tribute to his skill as an exhibitor. Among his best blooms in whites were Mrs. Frank Beach, James Kelway, Robert E. Lee, a new one, Avalanche, Baroness Schroeder, and Le Cygne; also, shown under name for the first time, his own origination, Mrs. Harry Little, a grand flesh white. In pinks were fine Hansina Brand, Kelway's Queen, Raoul Dessert, Hazel Kinney, Lady A. Duff, Phyllis Kelway, and Sarah M. Napier. Second went to Cherry Hill Nurseries, and third to Miss M. E. Blacklock, Meadowvale, Ont. A bloom of James R. Mann in the Cherry Hill entry was outstanding, an open pink Semi-double of exquisite form and beautiful coloring.

No tree Peonies were shown, no herbaceous species other than the common chinensis, and no hybrids. Professor Saunders had made a display at Boston the previous week, that date being more suitable for these early bloomers. So Toronto missed seeing any examples of what is really the outstanding color achievement of the last twenty years, the salmon, cherry, orange, and coral shades of red and pink, and the brilliant enduring dark reds of the various hybrids, chiefly of officinalis × chinensis. The pure chinensis Mrs. Livingston Farrand mentioned at the beginning of this article does get into this color range, but it would have stiff competition from the hybrids, and would be very fortunate to hold its own. And the dark red hybrids may likely make the Rose hybridists envious, for we already have richness, clarity, and durability of color, and substance in petalage that the rosarians have long dreamed about.

In white Doubles, Mrs. J. V. Edlund stood supreme. In the three-bloom class it was followed in order by the new Harry F. Little and Mrs. A. M. Brand, all three of them former Gold Medal winners. Priscilla Alden, Enchanteresse and Festiva Maxima did not score. La Lorraine, grand white, won for six blooms any



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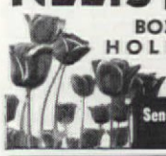

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color, and Le Cygne took a second and a third to Mrs. J. V. Edlund. Le Cygne is just as beautiful as ever, but Mrs. J. V. Edlund, Alice Harding and others have crowded up alongside it in ability to win. Marie Lemoine, grown in Canada, won in the ten-bloom class. Mrs. Frank Beach was shown in good form in several classes. Riverview Gardens showed a white Double seedling, No. 1-36 that to the writer was outstanding in form.

Hansina Brand dominated the light pinks. Mme. Jules Dessert, often considered a white, sneaked into the light pink class and took a first and a third. Sarah Bernhardt, Albert Crousse, Rosa Bonheur, and the newer Nick Shaylor also placed. Nick Shaylor has often been compared to Solange, but the resemblance is not there. Nick Shaylor can stand by itself as an attractive new variety. June Athalie and Lady Rolph, new Canadian originations were shown, but not in top form.

In dark pinks, Walter Faxon took a first and a third, Lady Kate and Souvenir de Louis Bigot each a first, Blanche King two seconds, with Clemenceau and Mons. Jules Elie completing the list.

In the reds, Philippe Rivoire, entered in all three classes, took a first, a second and two thirds. The new Daniel Boone, in competition for the first time, shown in two classes, took one first, and a second to Philippe Rivoire. Lora Dexheimer took a first and a second, Cherry Hill, Karl Rosenfield, and Felix Crousse being shown also. The beautiful color, form, and fragrance of Philippe Rivoire make it still the outstanding full double red, and it will soon be very widely grown. Price is already down so that it is now available to all. Daniel Boone, a large dark red Semi-double, was outstanding for its unfading color, and the fine substance of its petals.

There has been tremendous progress made in the Japs these last fifteen years, not in Japan, but here in the United States. Mr. Little's large display, however, contained only two of the new ones, Prairie Afire and Charm. The former is unique in having a center darker than the outer guard petals. Outstanding among the older kinds were Fuyajo, dark red, Kukeni-Jishi, palest pink, Margaret Atwood, white and yellow, Aureolin, pink and yellow, Fuji-zomo-gorono, pink, and best of all, Isani Gidui, white with yellow center.

Similarly, the display of Singles consisted almost entirely of the older kinds, and gave no idea of the great improvement that has

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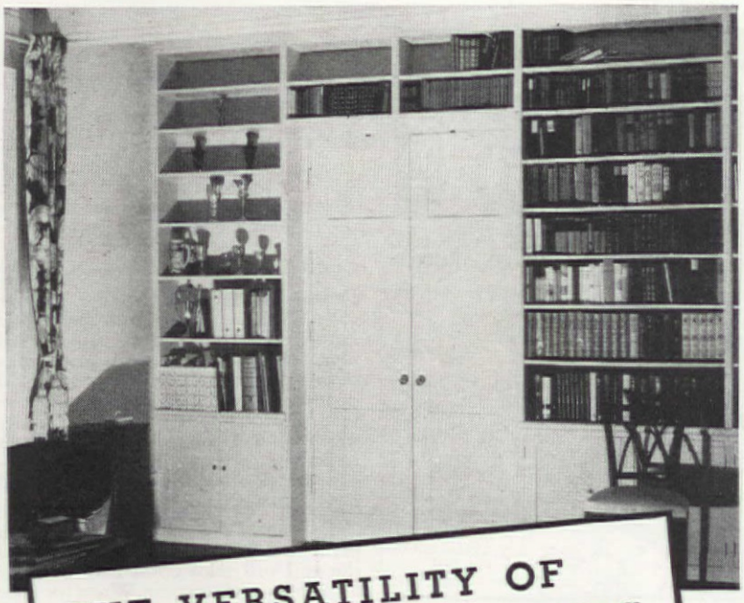
been made in this type, especially in the reds, and in the whites. In fact, a collection of these older Singles may explain why the Singles have been so slow in coming into public favor, for scarcely one of them is good enough to stand beside the new varieties now available. It is no longer necessary to grow red Singles which fade to a dirty hue, nor white Singles with pink seed pods, or seed pods which get greasy and dirty looking, nor any Singles with ragged petalage or on sprawly plants.

In the schedule, special effort was made to attract entries of Peonies arranged for effect, and for arrangements of Peonies which had not been disbudded. These were rather disappointing. Unless one uses a variety decidedly bunch flowered, like La Rosiere, the center bloom is gone before the side buds are out. A much better effect is secured by taking out the center bud while still small, and the side buds will then make a more nearly uniform bouquet. Since the Peony is one of our largest flowers, if used in mixed arrangements, the other flowers should not be too small. Baby's Breath or Bachelor's Buttons do not serve as well as sprays of Philadelphus or the larger perennials. To me, the ideal arrangement where variety is desired, is a basket of mixed Peonies alone. One basket gave a suggestion of interest—one variety of Peony, some blooms fully open, some half open, and some buds just showing color.

The show, being held in the northern part of the Peony "belt" was especially interesting to those who like very large Doubles. A list of the varieties exhibited by Mr. Bunn might prove helpful in selecting new kinds for planting this fall, as he is a most discriminating amateur, and grows only of the very best. Not all of these will develop so perfectly further south, but most of them will. In whites: Mrs. J. V. Edlund, Mrs. Frank Beach, La Lorraine, Mrs. A. M. Brand, Kelway's Glorious, Enchanteresse, Grace Loomis, Mme. Emile Lemoine, and Francis Willard. In pinks: Lady Kate, Hansina Brand, Myrtle Gentry (my favorite of the Brand varieties), Souvenir de Louis Bigot, Mme. Jules Dessert, Lillian Gumm, Milton Hill, Martha Bulloch, Florence Mac Beth, E. C. Shaw, Sarah Bernhardt, Walter Faxon, and Nancy Dolman. In reds: Philippe Rivoire, Daniel Boone and Mary Brand. This is by no means a complete list of the high class Doubles, not all even of those Mr. Bunn grows, but they make a most convincing display. To the reds one might add Mons. Martin Cahuzac, Karl Rosenfield, Richard Carvel and Longfellow, all good standard kinds, and in the whites and pinks, the other varieties named elsewhere in this report.



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