

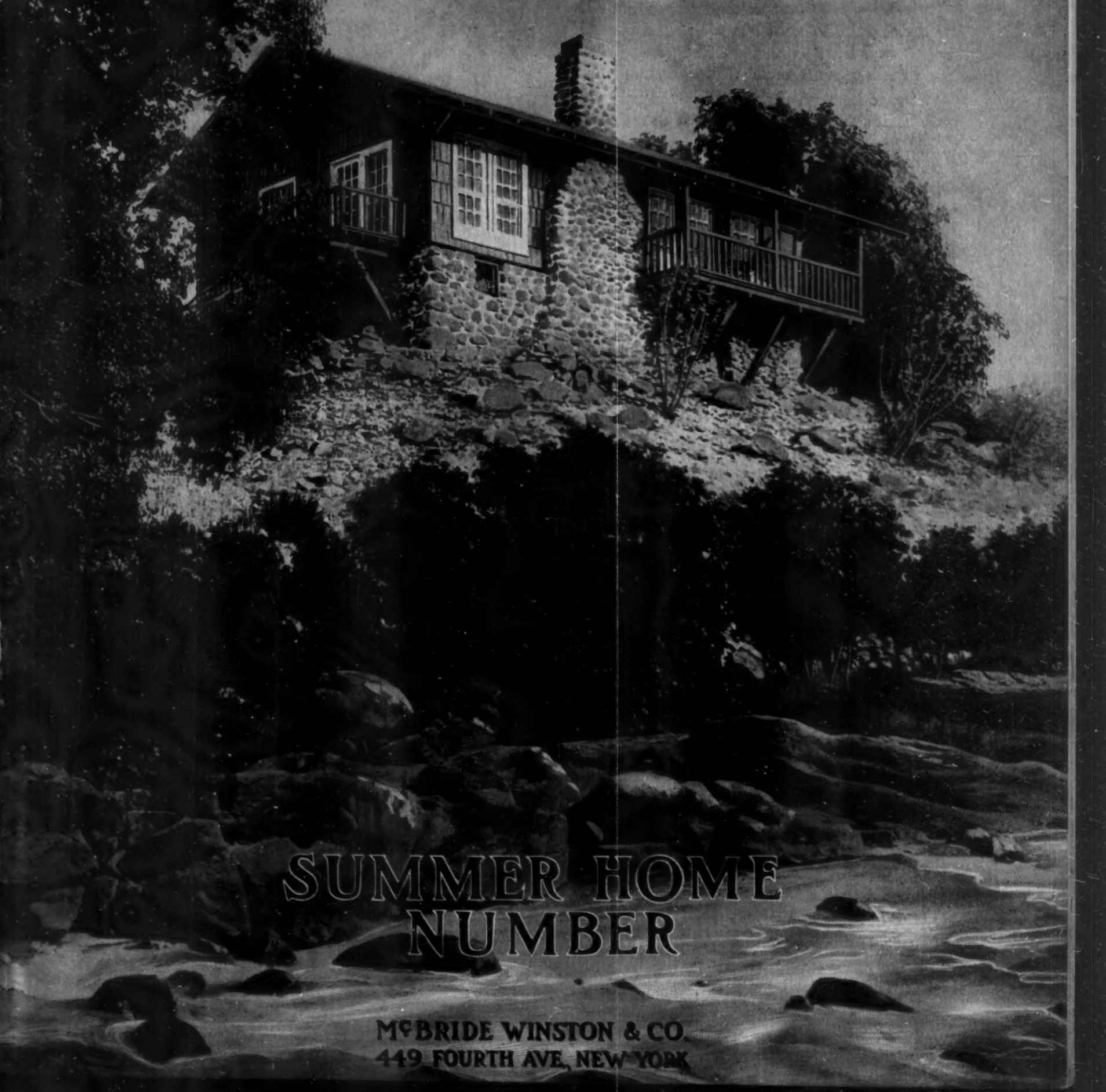
JUNE
1910

100 IDEAS FOR SUMMER HOMES
Building - Furnishing - Planting - Converting Old
Farmhouses into Country Homes - Bungalows

25¢
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MAY 28 1910

House & Garden



SUMMER HOME
NUMBER

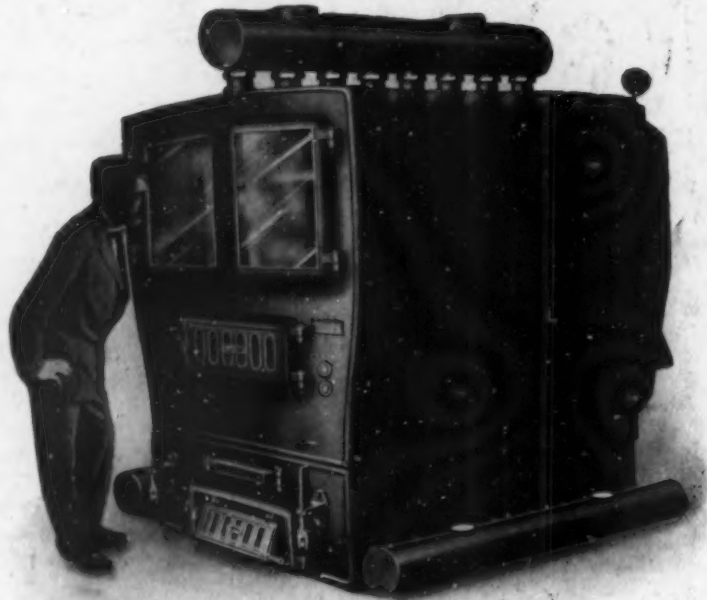
MCBRIDE WINSTON & CO.
449 FOURTH AVE, NEW YORK

We Built a Boiler With Windows in It

We learned by experiment that some boilers get twice the heat out of a ton of coal that others get. It is largely a matter of harnessing the fire and getting the most out of it while it is still hot.

So, to be beyond theory, beyond guesswork, we built a boiler with windows in it.

Through these windows we proved our experiments and perfected the new "**RICHMOND**" which, in actual practice, develops *double* the efficiency of ordinary boilers. And the day-after-day saving in coal will prove this to you, just as the windows proved it to us.



"RICHMOND"

Boilers

Radiators

By building a boiler with windows in it, we learned *certainly* about drafts, water circulation and fire travel which enabled us to perfect a heating system which doubles efficiency and halves the fuel bill.

We found, through the windows, that the flue is more important than other makers dream.

So, by patient experiment, we perfected a "diving flue" which costs us three to seven times as much as other makers spend for smoke connections and makes it that much more efficient.

The "**RICHMOND**" "diving flue" takes the gases and smoke which would ordinarily pass up the chimney and sends them back, mixed with fresh oxygen, to burn anew.

For every shovel of coal you put in the firebox this "diving flue" sends half a shovel back from the chimney.

The "Diving Flue"

The "diving flue" is our own invention. It is exclusive. It can be found on no boiler save the "**RICHMOND**"

The fuel economy it brings, more than repaid the experiment of the boiler we built with windows in it.

But the "diving flue" was not the only outcome of this experiment.

We learned more about drafts than had even been written on paper.

We learned how to increase our heating efficiency from 90 square feet to 128 square feet, without adding to the size or cost of the boiler.

We learned how to build a cross circulation water way which does for the water circulation what the "diving flue" does for the fire travel.

We learned how to arrange doors and drafts and dampers so that tending the fire becomes a simple, easy, exact science, instead of a difficult, haphazard uncertainty.

Self Cleaning Surfaces

We learned how to make 90 per cent of our surfaces self-cleaning—so more efficient.

And in countless ways, the boiler with windows enabled us to save half your coal,

double ease, flexibility, satisfaction—without increasing the first cost of the heating system to you.

The "**RICHMOND**" heating system as perfected today represents the climax of inventive skill—a system that repays the pains we put into it every day you use it.

The "**RICHMOND**" system is small enough for a three room bungalow. Big enough for a building that measures its floor space by the acre.

Write Us

If you contemplate installing a heating system, steam, or hot water—direct or indirect—in your home or building, large or small, write us. Ask for catalog 233. Be fair enough to yourself to learn of a system which, by inventive ingenuity, saves its own cost, pays its own maintenance.

Address in the West

Cameron Schroth Cameron Co

Western Distributors for

"**RICHMOND**" Boilers and Radiators

233 Michigan Street

Chicago, Ill.

THE McCRUM-HOWELL Co. 233 Terminal Building, New York
Park Avenue and 41st Street,

MANUFACTURERS: "**RICHMOND**" Boilers and Radiators; "**RICHMOND**" Enameled Ware; Bath Tubs, Lavatories, Sinks; Suda Makers; Suction Cleaners; Stationary Vacuum Cleaning Plants.

Five Plants: Two at Uniontown, Pa., One at Norwich, Ct., One at Racine, Wis., One at Milwaukee, Wis.



"Where Do Your Locks Come From?"

A writer in one of our recent magazines has said:

"Even of the cheapest locks permitted in the house however, it is wise to know that the maker is a firm of high standing and the construction likely to be good. In other words, don't fail to know where your locks come from."

It is for this reason, to give users of Locks and Builders' Hardware, the opportunity of getting thoroughly reliable goods that we put the quality we do into



HARDWARE
P. & F. CORBIN

MAKERS OF

"Everything in Builders' Hardware"

N. W. Cor. Eighth and Arch Sts., - Philadelphia
106-108-110 Lafayette St., - New York
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MAIN OFFICES AND FACTORIES
NEW BRITAIN, CONN.

Descriptive Literature on Request.

Ask the agent: "How heated?"

People are fast learning the difference between a house equipped with old fashioned heating methods or inferior apparatus and the home-making qualities of a house fitted with ideal heating. They shun one and seek the other. The living, renting and sales value of any building, large or small, is vastly increased by



Look into the Heating Question before you rent or buy.

AMERICAN & IDEAL RADIATORS & BOILERS

Boilers and AMERICAN Radiators save so much in coal and cleaning, in time and temper, in health and happiness, and without rusting or repairs, that they quickly repay their cost. In all the world they have no equal—hence the wide use by and high endorsement of all eminent engineers and architects in every civilized country where heating is needed.

The several hundred thousands of these outfits installed all over America and Europe are so comfortably, economically, cleanly and healthfully warming the occupants of all classes of buildings that buyers and renters are now insistently demanding them. These outfits of IDEAL

ADVANTAGE 16: The phenomenal success of IDEAL Boilers is also largely due to the fact that they are made in sections so that even their largest parts can be carried through an ordinary size doorway. For this reason they can be quickly put in old buildings without disturbing the occupants. In fact, in unmodernized or old types of houses they can be erected, including the necessary piping and radiators, without the necessity of removing the stoves or hot-air furnace until the new heating outfit is ready to fire up. They can be quickly erected in wintry weather when the old, crude heaters get badly worn or collapse. Ask for catalog "Ideal Heating" which tells all the advantages.



A No. 22 IDEAL Boiler and 240 ft. of 3/8-in. AMERICAN Radiators, costing the owner \$115, were used to Hot-Water heat this cottage.



A No. C-241 IDEAL Boiler and 555 ft. of 3/8-in. AMERICAN Radiators, costing the owner \$260, were used to Hot-Water heat this cottage.

At these prices the goods can be bought of any reputable, competent fitter. This did not include cost of labor, pipe, valves, freight, etc., which installation is extra and varies according to climatic and other conditions.

Prices are now so attractive that no one can longer afford to put up with the nuisance or run the risks of old-fashioned heating methods. Tell us kind of building you wish to heat—old or new—farm or city—inquiries cordially welcomed—and put you under no obligation to buy. Every prominent architect and every heating engineer recommend exclusively the IDEAL Boiler and AMERICAN Radiator. They cost no more than inferior apparatus. Accept no substitute.



IDEAL Boilers and AMERICAN Radiators keep a new house new and cause an old house to have its life and value prolonged.

Showrooms in all large cities

AMERICAN RADIATOR COMPANY

Write to Dept. 10 CHICAGO



Bungalows and American Homes



Design No. 2. Built in California and Iowa—Cost \$2800
Our Handsome 112 page, 8x11 book of Bungalows, Mission, Colonial, English timbered and Concrete houses for 1910 shows interiors, exteriors, and floor plans and actual cost to build, ranging from \$1,000 to \$10,000. These designs are photos of structures we have built throughout the country—not theoretical pen pictures. Special specifications and details of construction made to suit any climate. Price of book \$1.00 prepaid. Sample leaves free. BROWN BROS., Architects, 317 Security Bank Bldg., Cedar Rapids, Iowa

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Andirons, Fenders, Firetools, Fire Screens and Smokeless Gas Logs

We display a large selection of Period Andirons; also an assortment of reproductions in Old Colonial Andirons, Hob Grates and English Settee Fenders in Brass, Bronze and Wrought Iron.

Frank H. Graf Mfg. Co. Factory and Show Room
323 Seventh Ave., Cor. 28th St., New York



Country for Sale

*The Real Estate Department of House & Garden will be glad to advise its readers in regard
This service is given without charge. Address Real Estate*

GREENWICH, CONN. AND ALONG THE SOUND



Colonial Mansion

surrounded by 20 acres of high ground in lawns, Flower Gardens, Terraces, and Lawn Tennis Courts. Commanding a sweeping view of the Cross Country. Dwelling has 20 Rooms with 5 connecting baths, and two separate baths. Stable with large Carriage House—6 Stalls—and housekeeping accommodations for coachman or chauffeur.

Applications for sale will be entertained at the right figure.

This property must be seen to be appreciated.

OFFERED FOR SALE Farms and Acreage

Properties affording some of the most extensive and superb land and water views.

Superior tracts ranging from
25 to 1000 acres
and at prices ranging from
\$150.00 to \$500.00 per acre.

Shore Fronts and Several Estates and Improved Places

at figures below cost.

These offerings are not generally known to be on the market.

TO RENT Furnished Houses

for the summer months.

Unfurnished Houses

by the year.

To suit the requirements of all. All my offerings have been inspected and are recommended by me. Correspondence and calls solicited.



Gentleman's Country Seat

of 8 acres. A corner property, dwelling setting well back from the road, with beautiful lawns, fine large shade trees, shrubbery and flower gardens—Greenhouses.

The house contains 20 Rooms (Music Room, with pipe organ a feature) with 5 Baths. Appointments complete in every detail. Two Stables with Living Rooms in each.

To close an estate this property is offered for sale either completely furnished or unfurnished at an attractive figure.

THOMAS N. COOKE
SMITH BUILDING Tel. 430 GREENWICH, CONN.

When replying to the above advertisements kindly mention "Dep't H"

Property and Rent

to the purchase, sale or rental of country and suburban real estate in all parts of the country.
Department, House & Garden, 449 Fourth Avenue, New York City.



Summer HOMES Permanent

If you contemplate renting or buying write to us.

We have a number of specially fine Summer Homes to offer.

Personal Attention Given All Inquiries

FRANKLIN EDSON, RAYMOND B. THOMPSON CO.
SMITH BUILDING Telephone 729 GREENWICH, CONN.



Seashore Home for Sale, Rehoboth Beach, Del.

House situated on bluffs; property covers one full ocean front block. Most desirable situation on Delaware coast. Nine bedrooms; sun parlor; bathrooms, fresh and salt water; also servants' bedrooms in separate building; pumping house, absolutely pure water from driven wells; also bowling alleys and shuffle boards in special building

For further information apply to

ROBERT P. HOOPER, 509 Arch Street, Philadelphia

Excellent Fruit Lands

New York is the best State in the Union for good fruit.



The best country in New York State is Niagara.

You should have a fine peach and apple farm in the heart of this section. 135 acres with a very fine showing for good crops in both this year.

Jesse Shaeffer

Lockport, N. Y.

AT YORKTOWN.

Executors must sell fine ridge farm of 140 acres; shaded drive leads to 20 room house; fertile soil, well worked; sweeping views—just off State Road, 2½ miles to station, 30 miles from city line. Adjoins farm just sold to well known New Yorker.

COOLEY & WEST Inc., Phone 413, WHITE PLAINS, N. Y.

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Large and small properties with stock and tools, all equipped for business. Handsome catalogue upon request.

H. L. REED COMPANY
Amsterdam - - - New York

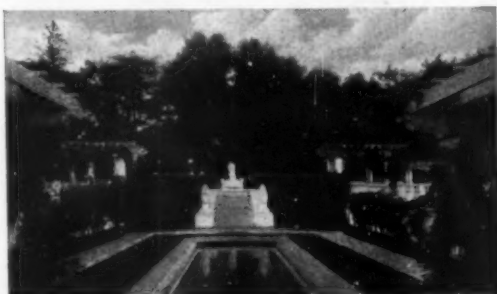
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Along the Sound

Furnished or Unfurnished Houses in Westchester County, Connecticut and Long Island

Reardon Realty Company

45 West 34th Street New York City



HOUSE FOR RENT at Sea Gate, Long Island, 45 minutes by elevated train from N. Y. City Hall or by special boat from Battery. Beautifully situated near water at Entrance to N. Y. Harbor. Near Atlantic Yacht Club and Pier. Contains eleven rooms, laundry, bath and summer kitchen; recently redecorated and newly furnished. Rent \$1200 for season.

For further particulars address Box 20, % House & Garden, 449 4th Ave., N. Y.



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The ideal realization of out of town living. A delightful home community, for all year residence. Protected social environment, the charm of the country, all city improvements. Immediately at station; only 19 miles, on Harlem Elec. Div. N. Y. Cent. R. R.

Scarsdale Company, OWNERS

J. WARREN THAYER, PRES.
Scarsdale, N. Y. 503 5th Ave. N. Y.
Westchester Co. Corner 42d Street



HOLLIS PARK GARDENS

A Charming Suburban Community

at Hollis, Long Island, twelve miles out on the Penn.-L. I. R. R. main line. 22 minutes from New York.

Hollis Park Gardens is not in the class of the typically developed suburb. Its homes are not of the stereotyped sort but are distinctive without being expensive. This gives the place a charm that is unique among suburban communities.

Hollis Park Gardens has every city convenience and improvement, all completed NOW. Situated on the ridge of Long Island it is high and dry with a cool ocean breeze tempering the mid-summer afternoons and evenings. A few residences ready June 1st for sale on convenient terms. As a home site Hollis Park Gardens is ideal; as an investment it is unexcelled.

Send for the book.

ISLAND CITIES REAL ESTATE CO.
585 Fulton Street Brooklyn, N. Y.

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and Surrounding Country.

WE HAVE UNUSUAL BARGAINS IN FARMS, ACREAGE, COTTAGES,

Sound Shore and Country ESTATES AND RESIDENCES.

We are ready to show and explain details.

Call or Write H. E. DANN & SON., Inc.
NORWALK, CONN.

Great Neck, L. I.

Small acreage places for sale adjoining Vanderbilt's. High ground, exceptionally fine location for select people to build.

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Wm S. Meany

Smith Bldg. Tel's 103-293 Greenwich, Conn.

GREENWICH, CONN. REALTY of all descriptions FOR SALE

Country Seats, Estates, Residences, Farms, Acreage, Building Sites
Furnished and Unfurnished Houses to Rent for 1910 Season

Would be pleased to have correspondence or a call advising of requirements



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This service is given without charge. Address Real Estate

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My list includes practically everything of any moment
on the Coast of Maine, from Kennebunk to Eastport.
Send for Illustrated Descriptive Catalog and map of the Maine Coast.
HARRY G. CLAY, Jr., Coast Property Specialist,
200 Pacific Ave., Atlantic City, N. J. Glenmere, St. George, Me.

Salt Water Frontages MAINE COAST



AT FREEPORT Long Island
Modern house, convenient to boating, bathing, and fishing, containing five master's bedrooms and two servant's bedrooms, two baths. One half acre ground. New Garage.
For sale at a very attractive price. Apply to
J. K. Van Vranken & Co., Country Dept.
8 West 40th St., New York City.

South Shore of Long Island
Residence Properties, Farms and Acreage for
Sale. Choice summer homes near the
Bay to Rent for season
Write or call for particulars
Tel. 22J. **JEREMIAH ROBBINS, Babylon, L. I.**



AT SCARSDALE Westchester County
Modern improved property: house 15 rooms, 3 baths, open
fireplaces, electric light, water, sewerage. 5 acres gardens
and improved lawns, facing small lake. In center of Heath-
cote Association Properties, best country-side and residential
section of Scarsdale.
Scarsdale, New York
Scarsdale Company, Agents 503 5th Ave., N. Y. City

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PHOTOGRAPHED IN COLOR
AUTOCHROME PROCESS**
Write for Particulars

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SALE and RENTAL
IS OUR SPECIALTY

Exclusive Clientele and Exceptional Facilities Correspondence Solicited
N. P. W. HILL, 1092 Drexel Bldg., Philadelphia, Pa.

SUMMER HOME FOR RENT
PARK HILL, YONKERS
High elevation, magnificent view. Large modern house,
beautifully furnished complete. Two bathrooms, seven bed-
rooms. Address A. L. P., House and Garden.

HERE'S YOUR SUMMER CAMP
Only hour from New York City on Main line Erie. 12
acres, grass fields, groves of forest trees, brook. Beautiful
view. Small house, suitable for camp. \$1,500.
C. I. SMITH, Mahwah, N. J.



FOR SALE—Attractive Home; beautiful location; 45 min-
utes out, at River Edge, in the hills of Bergen County, N.
J.; designed and erected by a 5th av. architect; seven rooms
and two baths, laundry, store room, ample closets; fine porch
and pergola; living room 16x26; open fire; hardwood trim, dou-
ble floors; best system of heating and plumbing; electric lights;
city water; situated on lovely acre plot; five minutes from
station; bearing fruit trees, shady lawns, flower gardens and
fine spring on premises; garage and servants' quarters. 14x25;
photographs on application; price \$10,000. 20 per cent cash, bal-
ance on time; a perfect home for a small family.

RUFFIN A. SMITH,
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This Camp was built and occupied by Levi P. Morton. It is situated on
upper Saranac Lake, justly called the "Switzerland of America." The tract
contains about six acres bordering on the Lake. The camp consists of ten
houses, including servants' house, guide's house, boat house, launch house,
etc. Large dock for lake steamers. Modern plumbing; also hot and cold
water. The entire camp is richly furnished throughout, including silver and
linen. Row boats, sail boat and launch in excellent condition. The camp can
comfortably house at least thirty people.
For photographs, plans and further information address
L. A. MITCHELL, 114 Liberty St., N. Y. Tel. 7300 Cort.



For Sale
or Rent
South
Norwalk,
Conn.

This 9-room, well built house with big fireplaces, good
cellar, fine well, fruit, brook, and 4 acres or more as desired.
20 minutes walk from Sta. Express train.

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148 EAST 28th STREET NEW YORK

A BEAUTIFUL COLONIAL HOME
In Hanover County, 20 miles to Richmond, Va., 250 acres,
1/2 open and cultivated, balance in woodland. Colonial brick
dwelling of 10 large rooms with spacious halls, and porches with
granite columns. 3 miles to a station on two roads. Daily
trains to the North and West, 8 hours to New York. Price,
\$10,000. Terms.
Virginia Farms, Colonial Homes, Summer Homes, Stock
Farms and Maryland and Virginia Water Front Properties in
the best sections. Write me your wants.
C. H. HARRISON - FREDERICKSBURG, VA.

Gentleman's Country Estate

on the South Shore of Martha's Vine-
yard, Mass. Over 140 acres fine land
with 1/2 mile frontage on shore of Great
Tisbury Pond—a magnificent lagoon
opening into the ocean, affording safe
sailing, splendid surf and still-water bath-
ing. Good fishing and shooting.

Large modern house recently built.
Twelve rooms including bath. Open
plumbing, hot water heating system,
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stable and boat house.

Bargain at \$20,000

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Department, House & Garden, 449 Fourth Avenue, New York City.

BUNGALOW and Villa Sites "in the Pines at the Ocean"

Finest location on the coast. 1 1/2 hours from New York. 1 1/2 from Philadelphia. 2 miles water frontage, celebrated bathing beach, 20 acre wooded park, sewers and all improvements. Finest train service. Moderate Prices. Send for Booklet D.

SEA GIRT Company, 115 Broadway, N.Y.

Move to Princeton

A charming home-town with beautiful country surroundings. Convenient to both New York and Philadelphia—fast trains.

Rentals \$300 to \$6,000 a year. Completely furnished homes also for rent.

At Bayhead on Barnegat Bay, N. J., I have some desirable summer properties for rent, furnished.

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New York Office, 56 Cedar Street

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FOR SALE—Fine Estate, 275 acres fertile land, with about 3/4 mile frontage on the Rapidan River. Large brick dwelling house, three tenant houses, stable, cattle barn, colt stable, corn house, hay house, granary, blacksmith shop and other buildings. Located in the heart of Piedmont Virginia—section of country celebrated for its beauty and healthfulness—surrounded by most desirable neighbors. Good fishing and gunning—two hunt clubs within reach. Situated only 1/2 mile from station. Churches and schools nearby. Property to be sold to close an estate. Price \$100.00 per acre.

Correspondence invited. Address

H. T. Holladay, Rapidan, Va.
or, Dr. Lewis Holladay, Orange, Va.

I HAVE for sale in Dutchess and Columbia Counties on Harlem Division of N. Y. C. & H. R. R. R.

REAL ESTATE

of all descriptions, also choice dwellings to rent for the summer.

M. L. JENKS, MILLERTON, N. Y.

Seacoast Homes Between Atlantic Highlands and Asbury Park, N. J.

Furnished Cottages For Rent from \$400 up and For Sale \$3500
BEAUTIFUL BUNGALOW and COTTAGE SITES, near Deal Lake, \$1500
1 Union Square, New York
JACOB A. KING West End, New Jersey
804 Fifth Ave., North Asbury Park, N. J.



LAURENCE TIMMONS

37 RAILROAD AVENUE

Tel. 456

GREENWICH, CONN.

This perfectly delightful place is offered at a very attractive figure.

I will be pleased to give you further particulars upon request.



FOR RENT \$720.00 per annum

At Crestwood, New York, on Harlem Railroad, 30 minutes from 42d St., near station, situated on high ground, beautiful view. New colonial house, nine large rooms, exceptional closet room, a woman's ideal house, every modern improvement, oak trim, hardwood floors, hot water heat, fine plumbing, electric lights, nearly half acre of ground, flowers, fruits, vegetables, real country with all city conveniences. Address

N. GRANT KELSEY, Owner, 89 ELLIOTT AVE. YONKERS, N. Y.

COUNTRY HOMES Mt. Vernon, Bronxville, Pelham Hts. and Vicinities

DESIRABLE FURNISHED HOUSES FOR
THE SUMMER MONTHS OR LONGER

Comfortable Electric Train Service
From Grand Central Station, 30 Min. Ride

Cooley & West, Inc.
PHONE 708 MOUNT VERNON, N. Y.

A HILLTOP HOUSE

View unsurpassed in Westchester County. Best neighborhood. Mile and half from Chappaqua toward Mt. Kisco. House can be enlarged as desired.

ALFRED BUSSELLE, Architect
1133 Broadway, New York City

MODEST SUMMER HOME

For Sale. Cottage, 8 rooms, large Carriage-house and Stable; acre ground; fruit, shade, near lake; in the hills of Katonah, Westchester County; price only \$3,000.

Home-Farm at Mount Kisco, 20 acres, very high elevation, grand views; good house, 10 rooms; barns, stream, fruit, electric light, telephone; price \$17,000.

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505 Fifth Ave., New York

Summer Homes, Cottages and Bungalows

You will find no better medium through which to rent or sell your summer home than the Real Estate Department of

House & Garden

Our Summer Numbers afford an exceptionally fine opportunity to reach a large number of people who will buy House & Garden because of specially featured articles on summer home life. We place your property before a new and live constituency of nearly 30,000 subscribers.

Rent or Sell Your Home

through this department.

Space \$5.00 per Inch, single column

Real Estate Department **HOUSE & GARDEN**

For examples:

A 1/2 inch advertisement the size of J. A. King on this page costs \$2.50

A 1-inch advertisement the size of A. Busselle on this page costs \$5.00

A 2-inch advertisement the size of Scarsdale Co. on opposite page costs \$10.00

A 3-inch advertisement the size of F. B. Stokes on opposite page costs \$15.00

A 4-inch advertisement the size of Island Cities Real Estate Co. on page iii costs \$20.00

We make half-tone engravings to accompany advertisements in this department without additional charge.

July forms close June 12th

July published June 25th

Full information given to those desiring to buy or rent a summer home, cottage or bungalow. Address

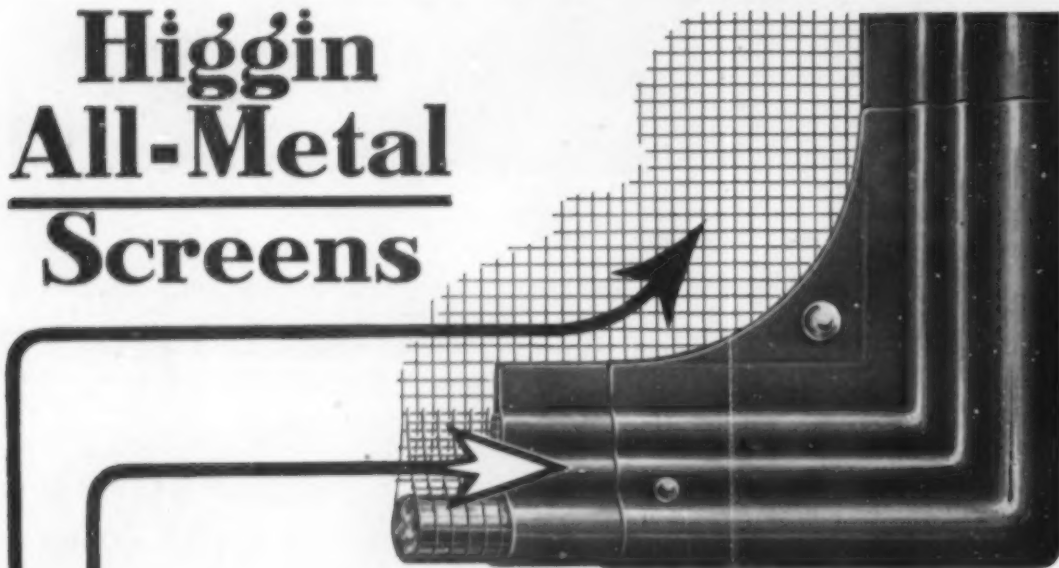
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HUDSON RIVER Water Front Bargain

A beautiful, modern Home, directly on the Hudson shore, with high class surroundings, strictly residential section and no railroad tracks or commercial features to mar the environment; all water facilities, dock for small boats, shade, lawn and magnificent panoramic view; near station and only one hour to downtown business district; fine express service; \$15,000.
Write for information to

HOWARD GOLDSMITH
Nyack-on-the-Hudson, N. Y.

Higgin All-Metal Screens



Corner of Higgin Screen showing actual size of frame, actual mesh of netting as usually preferred, and the patented inside round rod that holds the wire.

FRAMES of steel or copper. Only 9-16 inch thick. Enamel or dull finish. Trim, neat, inconspicuous, beautiful! Channels metal too. Nothing to warp, split, swell, shrink, or rot. No cause for sticking. Screens fit perfectly always.

NETTING of solid bronze wire. Not painted because it needs no paint. Can't rust. Never has to be painted. Always looks like new. Fastened by our patented inside round frame. Held uniformly tight but not bent sharply at any point. No breaking. No repairs.

Screen once for all

Get Higgin Screens now and save money later

Branch offices in all principal cities. Local representatives furnish estimates without charge or obligation. But if we have none in your city we will take measurements, deliver and fit screens; satisfaction guaranteed. Wherever you live you need not take a substitute for Higgin Screens.

Free Catalog shows Higgin Screens for various styles of windows and doors adapted to either old or new buildings and tells what users think of them. Write today.

THE HIGGIN MFG. CO. 508-530 Washington Ave., Newport, Ky.

Higgin All-Metal Weather Strip—Zinc and bronze. Always air-tight. Window never sticks. Circular free

Ruddington Kennels

CHOW CHOWS

For Sale and Stud



CHANG FONG

Address
JOHN A. McVICKAR
Mamaroneck, New York

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SHETLAND PONIES



An unceasing source of pleasure and robust health to children. Safe and ideal playmates. Inexpensive to keep. Highest type. Complete outfits. Satisfaction guaranteed. Illustrated catalog.
BELLE MEADE FARM
Box 19, Markham, Va.

RABBITS AND PET STOCK

Unrivalled Flemish Giant, Angora, Tan and Polish Rabbits—Peruvian and Smooth Cavies for fancy or pets. Youngsters for sale, \$1.00 up
ELM COVE RABBITRY, Great Neck, L. I.

A Good Word for the Airedale Terrier

BY FRANK T. CARLTON

THE Airedale is held by many, and with good reason, to be the best "all-rounder" in the world of dogs. He is of a useful size, standing about as high as a Collie, and weighing, if of the male persuasion, anywhere between forty and fifty-five pounds. Females of the family range between thirty-five and forty-five pounds.



Champion Colne Master Royal, a fine example of the Airedale breed

Fill such a specimen of dog-flesh with the concentrated essence of pluck, dash and energy, and you have a useful "pal" on dark nights. Add as much as you like, too, of sporting proclivities with unparalleled endurance, and you readily recognize that the Airedale is fit for any clime, time or emergency. He has all the daring and elan of the Terrier, with the judicial poise of the hound—from both of which he traces his descent. He had his origin in the Valley of the Aire in Yorkshire, England, and proved so valuable a discovery that within twenty years he has gone to the front throughout the civilized world as perhaps the beau ideal of an all-round useful dog. He cannot be put to the wrong thing on land or water. He will face anything from an otter to a cougar, and withal he is neither bloodthirsty, nor quarrelsome. He is built like a hackney, and because of his mixture of prowess, grace and self-respect, he is often referred to as the "gentleman's dog." In other words, he is equally at home by flood, field or fireside.

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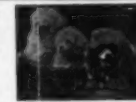
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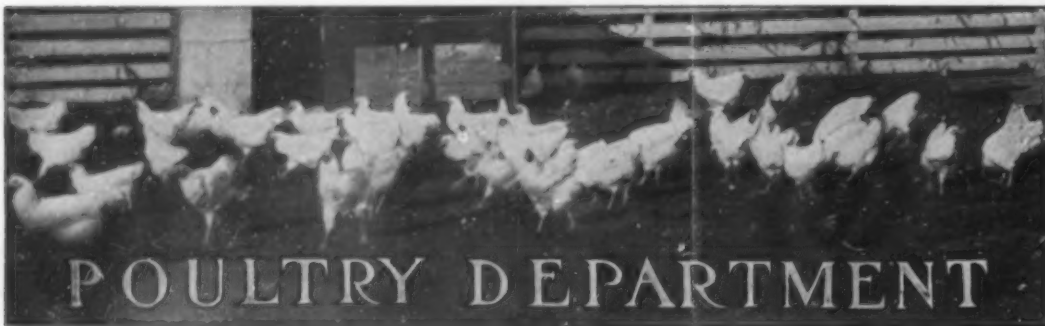
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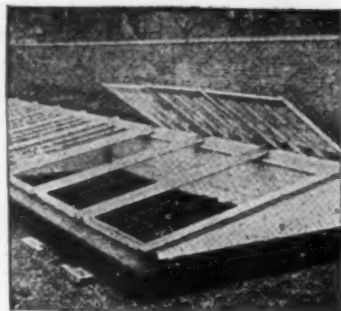
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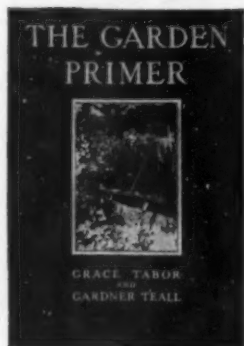
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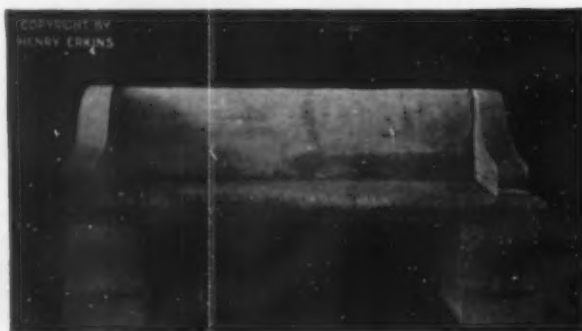
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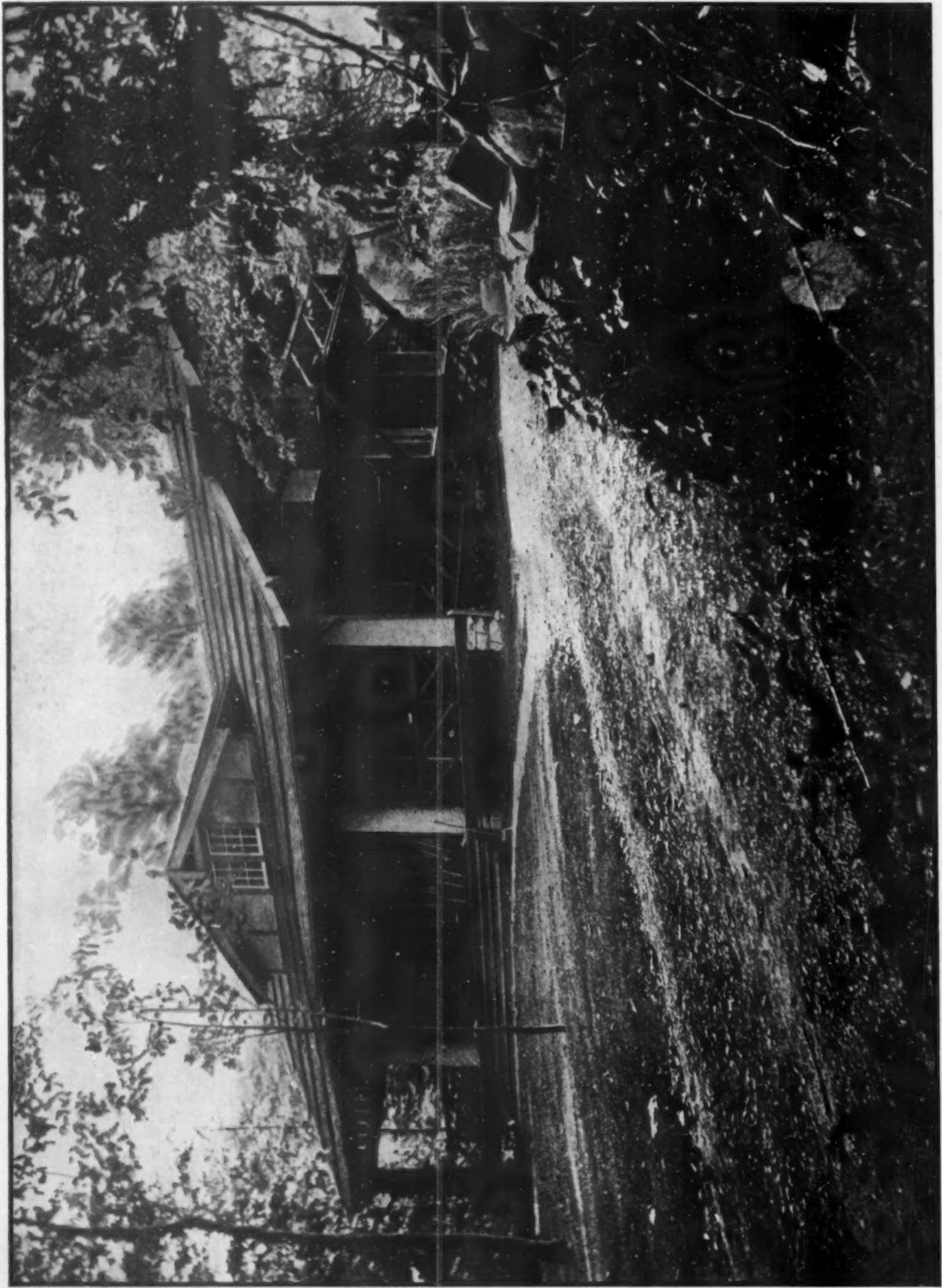
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THE BUNGALOW OF MR. HARRY GILLET, GATES MILL, OHIO. W. Stillman Dutton, architect
The horizontal lines of both side walls and roof have been accented by doubling the shingle courses. The balcony at the near end makes an ideal sleeping porch.
Three thousand dollars covered the cost

House & Garden

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June, 1910

NUMBER 6



A bungalow at South Pasadena, Cal., built of redwood shingles and brick that is interspersed with clinkers. The floor plan appears below. Lester S. Moore, architect

All Types of Bungalows

WHAT THIS MUCH MISUSED TERM REALLY MEANS—THE POSSIBILITIES OF THE TYPE FOR SUMMER HOMES, AND ITS LIMITATIONS

BY RUSSELL FISHER

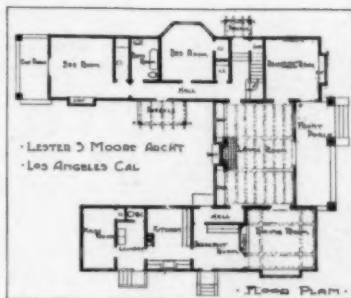
Photographs by W. L. Burn, Gabriel Moulin and others

THE term "Bungalow" provides a curious example of how we Americans overwork a word that is euphonious and the meaning of which, because of the word's comparatively recent assimilation into the language, is somewhat uncertain. One hears nearly every type of country or suburban home called a bungalow, provided only that the house is somewhat informal or picturesque in its lines. Someone has facetiously remarked that in the new dictionaries a bungalow should be defined as "a house that looks as if it had been built for less money than it actually cost."

It seems worth while, in view of the popular misconception of the word's actual significance, to look into its derivation with the purpose of finding out just when it may properly be applied and when it is a misnomer.

According to the authorities, a bungalow is "a Bengalese house," but it is not the typical native's home in India. These are of an entirely different type from our conception of the word.

The only bungalows to be seen in India are the "Rest houses," erected by the English government along the main roads of travel. These are inns or hotels, consisting of a large central building divided in the middle by a hall separating large rooms, with a kitchen in a separate building that is reached through a covered passageway. In these Rest houses the bedrooms are in still another adjoining structure, always a long low building with the bed-chambers opening upon a straight corridor. A low, rambling mass, with wide verandas, overhanging eaves, floors of stone or concrete and single-story construction, are the characteristics of



Broad windows in the living-room give a view over the patio



The rather high two-story rear wing of the bungalow shown on the preceding page robs it of the right to the title



White enameled wainscoting and an unusual type of built-in buffet are found in the dining room

the true Indian bungalow. There is never a second story, never dormer windows to break the long simple roof planes that appear to come down, particularly at the ends or corners, nearly to the ground.

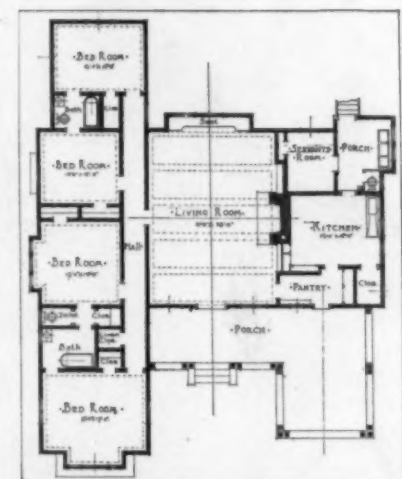
In adapting this type of building to our own needs we realize at the very outset that there are two forces working against the adoption of the true bungalow characteristics. One of these is the element of cost; a building with all its rooms upon the ground floor is the most expensive kind to build. There is more wall surface and roof area in proportion to the enclosed space than in a building of two or more stories. Then, too, there is

a common prejudice against having our bedrooms on the ground level, particularly since we do not have to contend with the burning heat of India. There the deep air space enclosed in the roof above low ceilings is a necessary protection against the sun. With us the air space above even the second-story rooms is sufficient for protective purposes, this being about six or eight feet high in a bungalow that is twenty-five or thirty feet wide. When we meet the problem of lighting and ventilating these bedrooms, however, the main difficulty of adapting the bungalow type becomes apparent. With the addition of dormer windows the attractive simplicity of the roof is at once spoiled. To secure head-room in the bedrooms the whole roof must be raised, and with this change the building loses at once its similarity to the real bungalow. So if we are to be free to call our summer home a bungalow it should have all of its rooms on the ground floor.

Granting, then, that our bungalow shall be a one-story affair—or at least that any space on an upper floor shall be of minor importance, without the necessity for much outside light, let us look into the matter of planning the main floor. Simple as a bungalow appears outwardly, an economical arrangement of living-room, dining-room, service and bedrooms, with means of ready intercommunication, is not easily accomplished. The first rough draft of our floor plan will probably reveal the fact that we are wasting twenty-five per cent. of the whole area in hall space. As has been said above, the true Indian bungalow usually has its



By reason of the sloping site a laundry was built under a rear corner



The central living-room type with a bath to each two bedrooms



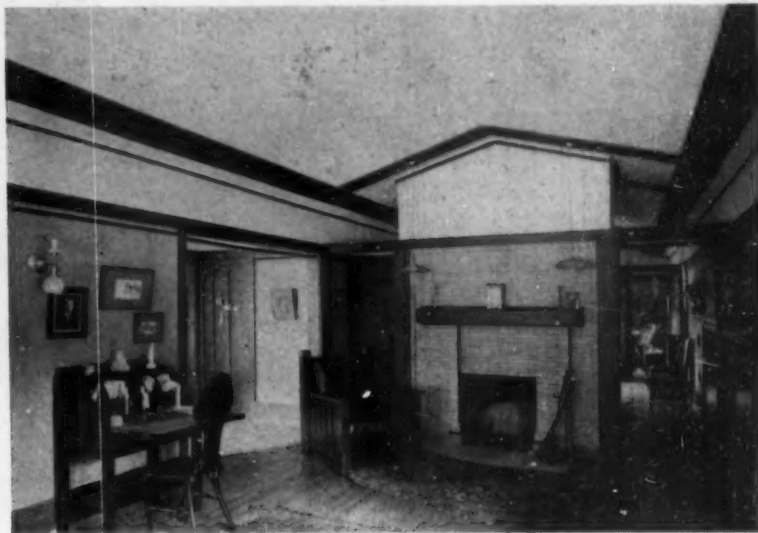
An interesting shingled bungalow at Belle Terre, Long Island, the plan of which is shown at the right. Aymar Embury, architect



A shingled bungalow at Burlingame, Cal. (plan at right), which cost, with barn and outbuildings, \$10,500. Sylvain Schnaittacher, architect

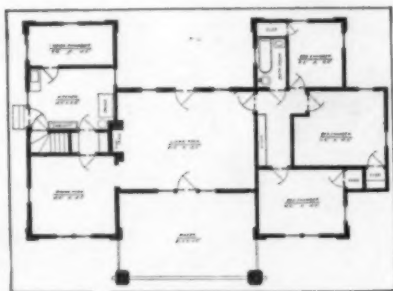


A mid-western type of plaster and shingles built by Tallmudge & Watson, architects, at Oak Park, Ill.

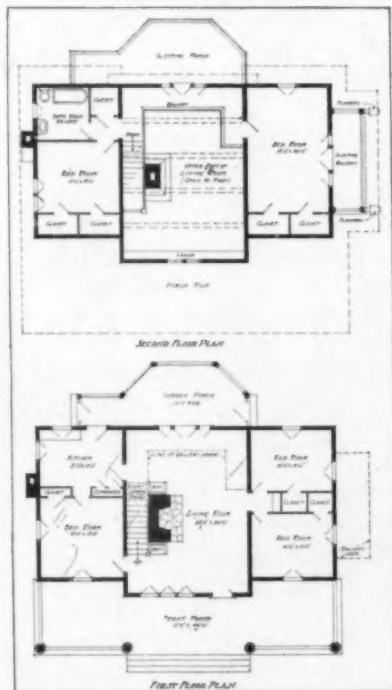


The living-room is found in the projecting wing shown at the right of the adjoining illustration

bedrooms strung along a long straight corridor. While that is to be expected in a hotel, it is assuredly not desirable in a private dwelling. It is a difficult matter to lay down any hard-and-fast rules for bungalow planning, but I think it will usually be found that an arrangement providing for a large living-room or hall extending through the middle of the building from front to rear, from which open at both sides the bedrooms and dining-room, with the kitchen and service portion extending out beyond the latter, will form an excellent basis upon which to develop the final layout. With this scheme the bathroom, or bathrooms, may offer some difficulty, though these may probably be planned to come between two adjacent bedrooms, opening into each.



A plan that is remarkable for the small amount of hall space



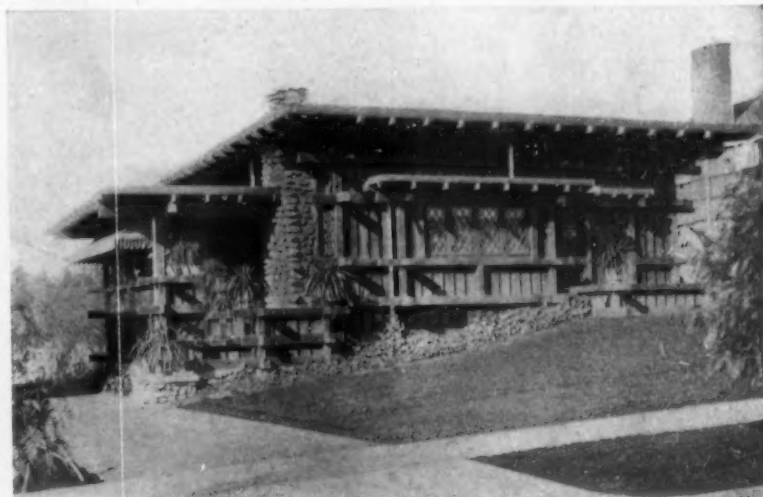
Plans of the \$3000 bungalow at Berkeley, Cal., illustrated in the frontispiece

ordinary stud frame, or even common rough boards, overlapping if nailed horizontally to the framework, or battened with narrow strips if put on vertically from sill to roof-plate.

Logs, while undoubtedly picturesque and harmonious with the informal character of the building, are usually unsatisfactory. Their use requires skilled and experienced labor, and even when well put together, they are apt to give trouble after a year or so, through the visitation of borers that get under the bark and start decay. Slabs, which are the first cuts from the four sides of a log, are usually obtainable at a very low cost if there is a saw-



An interesting combination of brick piers and plaster on wood frame, at Belle Terre, L. I. Aymar Embury, architect



A western coast bungalow that displays a remarkably daring utilization of modified Japanese motives

The piazza, of course, is one of the essentials, but it will be well to provide for this so that it will not darken too much of the interior. Usually there is no great objection in having it cross the bedroom windows, since these rooms are not required to be so bright. In the typical arrangement that has been suggested, the piazza could be carried across the entire front or rear, as the exigencies of the land may require, its roof being broken, in the space adjoining the living-room, by a section of uncovered rafters in a sort of pergola motive, upon which not-too-enthusiastic vines may be allowed to climb.

As to the materials of which the bungalow shall be built, there is a fairly wide choice — shingles, cement, field-stone, logs, slabs on an



An exceptionally effective and simple clapboard bungalow in a typically luxuriant California setting



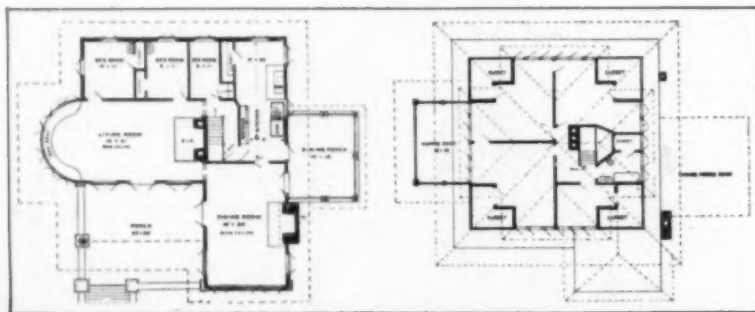
Mr. H. M. Stewart's bungalow, Liberty, N. Y., cost \$1700 in 1904, Fred Wesley Wentworth, architect

mill within convenient reach. These are nailed to the outside of a common stud frame, horizontally, the width of the "chinks" between adjacent slabs being kept fairly narrow by alternating the butt ends. If the studding is to be sheathed on the inside there need be no attempt to caulk these chinks tightly, but if

no inside finish is planned, the wall can be made reasonably tight by putting the slabs on a preliminary outside sheathing of the roughest sort of unplanned boards. These, of course, should run at right angles to the length of the slabs. Still another method of making tight a slab wall was described in HOUSE AND GARDEN



"Cobble Villa," Belle Terre, L. I., Henry B. Moore, architect and owner. The plans are illustrated to the right

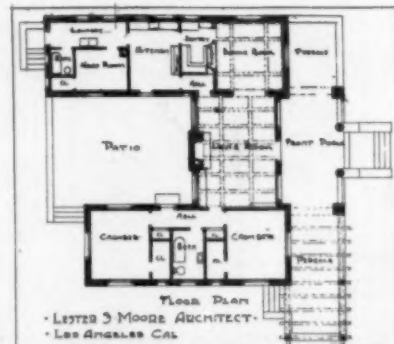


The dining-porch on the first floor, and the pergola sleeping-porch opening from the two main bedrooms, are noteworthy

for January, 1910, in which instance strips of wire mesh were tacked over the backs of the joints to support a caulking of cement-and-hair mortar. The inside of the studding was then covered with a slab wainscot of birch with a rough fabric, such as burlap, above it.

Shingles, siding or rough boarding offer no special difficulties in construction, and these materials may either be left to weather to a silvery gray or stained with one of the readily obtainable shingle stains.

When we come to the matter of the inside finish, there is opened up a great field for the expression of individuality. Even though the bungalow must be kept down to the bare essentials, with no covering at all for the stud frame, there is an opportunity for avoiding the commonplace merely in the carefully studied spacing of the studs or upright members. Do not be content to have these appear just as the carpenter finds it convenient to place them; have them symmetrically spaced on either side of center openings, with the horizontal member forming the window-sills carried all the way



The plan of the bungalow illustrated to the left, built around a patio



An adobe bungalow at San Marino, Cal., that suggests the Spanish Missions. Lester S. Moore, architect

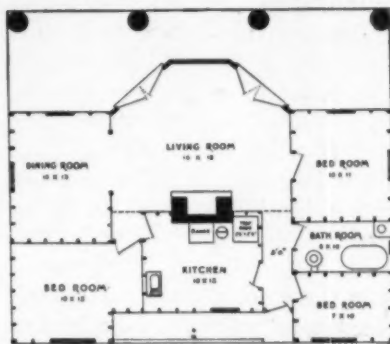
around. Then, too, if the slight additional expense be permitted, the studding may be covered with pulp-board or compo-board, a comparatively thin but rigid material that may be painted or, better still, covered with a rough fabric in cool gray, apple green or a pleasing shade of brown.

If the bungalow walls are built of one of the more substantial materials, such as cement, there are great possibilities in working out interesting surface textures for the interior, with the use of inset tiles to gain the desired spots of color.

No bungalow is worthy of the name without at least one big fireplace for the living-room, and if additional ones may be built in the bedrooms, so much the better—these will be fully appreciated in early spring and late fall. Stonework seems to harmonize best for the chimneys and breasts with wooden walls, and rough brick, tile or cement, if the latter material is employed throughout the building. In any case make sure that the fireplace and its flue are built along scientifically correct lines—a fireplace that smokes is of less real



Another Belle Terre bungalow, with entrance at the rear. The broad piazza in front commands a magnificent view of the Sound. Geo. Merritt Waid, architect



First floor of the building shown above. The studding inside is left uncovered

practical value than a gas-log.

Just a word in closing, regarding foundations. With walls of concrete, stone or brick the foundation underpinning will, of course, have to be of concrete or stone, carried to bedrock or to a solid footing below the frost-line. With bungalows of wooden construction considerable expense may be saved by building on piers of masonry or even on locust posts that are set well into the ground, resting upon a broad flat stone footing. If this

form of foundation is chosen be sure that the sill girders, set on the posts for the support of uprights and floor joists, are as near the ground as convenient. The space between the posts should be latticed. In other words, keep the building low down on the ground if it is to merit the title of bungalow.

Frequently a supply of gravel will be uncovered in digging out for the foundations. If it is, the problem of masonry supports, either as walls or piers, is half solved. With an outside supply of cement only, the foundations can be laid up of concrete, or the latter may be tamped around the locust posts.

Making the Porch More Livable

THE WONDERFUL POSSIBILITIES IN THIS DISTINCTIVELY AMERICAN FEATURE OF COUNTRY AND SUBURBAN HOMES—SUGGESTIONS FOR FURNISHING AND DECORATING IT AS AN OUTDOOR ROOM

BY LUCY ABBOT THROOP

Photographs by Jessie Tarbox Beals and others

ONLY a few years ago a porch was a porch to the average person (like the famous primrose to Peter Bell), "and it was nothing more." Now porches and piazzas have come into their own and they help vastly in bringing more gaiety and pleasantness and healthfulness into our lives. Wherever one turns one finds the furnished porch; for sleeping, for dining, for living-rooms, it may be large or it may be small, it may be built for the purpose, or it may be a makeshift, but the ideal of outdoor living is there and is steadily gaining ground, and everyone tries to have at least a small portion of the open where they can be comfortable and where mosquitoes cease from troubling and spiders are at rest.

The ideal porch is broad and large enough to allow one always to find a shady and protected spot. It should be

so planned that it is an absolutely necessary and convincing part of the architecture and not an excrescence or afterthought that it so many times seems to be. It may be an open porch or have pillars supporting beams or a roof, or it may have only a balustrade or a low wall or coping

with a broad and comfortable top. Low easy steps should lead to the driveway and garden, awnings and vines should cast a pleasant shade, and shrubbery and gay flower borders add to its charm. The chairs should be so arranged that the best views are taken advantage of without the trouble of moving the furniture.

One may not be able to have one of these large and entrancing porches, but that is no reason for going without one entirely. A summer in town is not so bad if one can find some place about the house where a porch or a



Willow or wicker furniture is not at all expensive and it will redeem almost any porch

loggia or a little balcony may be tucked. With boxes of vines and plants on the railing, a swinging seat, a comfortable wicker chair, some cushions, a table and an awning or bamboo curtain if necessary, one has the possibility of many happy hours.

A porch can easily be made most attractive and livable and really amount to an extra living-room. There are many different kinds of suitable furniture made and all tastes and purses can be satisfied. It goes almost without saying that it should be of a kind not easily hurt by a sudden shower; in heavy storms it is of course pushed out of harm's way, but upholstery and expensive covering for the cushions are out of the question.

Willow or wicker furniture is always good, and may be left the natural color or stained as one wishes. It is something to be thankful for that elaborate designs are not often seen nowadays; good and simple lines are what people want, and it is easier to find them than it was a short time ago. Removable cushions covered with cretonne, linen, India cotton, Russian crash, denim, turkey red, etc., are all used, the colors and materials to harmonize with the general scheme of the house and garden. Another kind of furniture suitable to porches is called India splint. It is built somewhat on Mission lines, but is not so heavy and is very attractive. Everything needed is made in it, from seats and swings to curate's assistants, and it is usually stained a soft and pleasant brown. Rustic or splint furniture is always good and can be stained any color desired; and then there is the rustic furniture made of branches, which, when it is well built, is appropriate for camps and bungalows in the woods, or for garden seats. Mission furniture is exceedingly well suited to porches if it is of one of the best makes and not the extraordinarily heavy and clumsy kind that we too often see.

There are chairs of all kinds, tables, settees, swings on chains, tea wagons, screens, everything, in fact, that can possibly be needed in these different kinds of furniture.

The subject of prices is always one of interest, as it helps one to make a general estimate of the cost, so I add a short list. Prices vary in different parts of the country and in different shops, which make it rather difficult to be absolutely exact, but from these approximate prices one can gain a general idea for a guide:

Wicker chairs cost from \$3.50 to \$24; India splint, from \$3.25 up; rustic, \$2.50 up; McKinley arm chairs are very attractive and cost \$9.75. Wicker long chairs, \$15 to \$18. Settees or sofas in wicker, \$8.25 to \$25; India splint, \$11.50 to \$25; rustic, \$13 to \$21; other settles can be bought for \$5, and settles with backs that turn down to form a table cost from \$6.75 to \$10.50. Wicker tables, \$2.75 to \$15; India, about \$10; rustic, \$4.25 to \$6. Oak folding tables, with any finish, are \$6.75; they are 36 x 40 inches and are large enough for simple meals; oak folding tea-tables cost \$3. Tray-stands are from \$1.50 to \$9.50. Tea-wagons cost about \$25, and large tea-trays, \$5 up. Curate's assistants are \$3.50 to \$7.50. Magazine-stands cost \$4.50 to \$10.50. Screens may be had from \$10 up. A very attractive India splint screen costs \$14; frames, to be covered at home, cost \$6. Swing settees cost from \$8.50 to \$30, and Gloucester hammocks from \$10 to \$16.

The rugs that are most appropriate to use are matting and prairie grass, Algerian Fibre, Japanese cotton and jute, woven and hooked rag rugs, bungalow rugs, and some Axminster and Wilton, and Scotch reversible. They vary in price from \$3.25 to \$50, according to size and kind. Very valuable rugs are out



This inviting porch is at the rear of a Philadelphia suburban home, overlooking the garden. The white-painted willow furniture enlivened with bright-colored cushions and the grass rug makes it a most attractive outdoor living-room

of place for out-of-door service as a usual thing.

Colors for porch furnishings should take their keynote from the color and style of the house. The gray of concrete or plaster, the soft red or beautiful variegated colors of brick, the white or yellow of Colonial houses, or the browns and moss greens of shingles, all call for a variation of treatment. As a general thing we can stand gayer colors out of doors than in the house, for the kindly atmosphere treats them as it does the bright colors of flowers and seems to give them the needed softening touch. Bright red, which can be used to advantage in a cool climate, is often too hot looking unless it harmonizes perfectly with the color scheme. Yellow, and some greens, do not fade so rapidly as blue, but most pale colors vanish as if by magic in hot sun and sea air.

Curtains of heavy material, with or without a stenciled border, are often used to hide the service end of the house from view, but thick vines are really better. If one wishes a vine screen that will grow rapidly and last well through the season the Cobæa is most satisfactory.

If there is a bay window, looking out upon the piazza, a window-seat built around it is a good idea. It gives many extra seats and is an attractive feature when covered with cushions to match the others. It may be like the woodwork or like the furniture, as one pleases. A shelf for magazines, with weights to keep them from blowing about, is a godsend, and also a nest of tea-tables will be found most useful.

Of course we all know there are no mosquitoes in any well regulated summer place, but still, accidents may happen, and a strong wind may blow them from the little town across the bay, or the salt marsh five miles away—it is odd how often that wind seems to blow, and it is well to be prepared by having a part of the porch screened; it adds wonderfully to the joy of life. A simple way to screen a portion of the porch is to use black mosquito netting, six feet wide. Have it tacked carefully to the posts and woodwork and cover the edges with narrow molding painted to match the woodwork. One can enter from a door or French window from the house, and a hedge of plants across the piazza just outside the netting will keep people from walking into it.

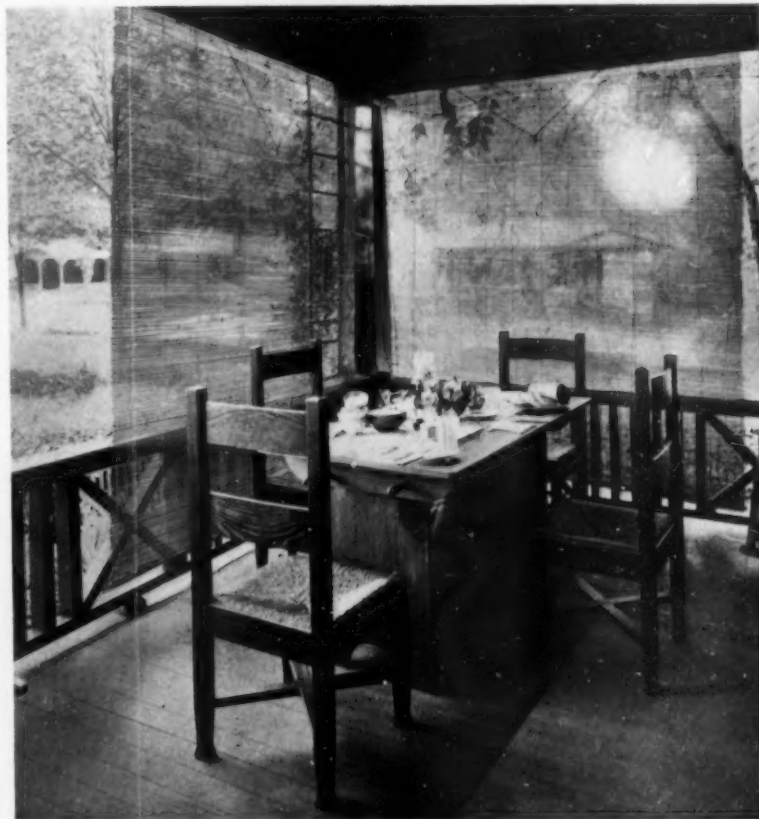
And now a word or two about sleeping-porches. The custom of sleeping out of doors is becoming more and more common, and people who have faithfully tried it all the year 'round say that they feel fairly boxed up when obliged to sleep indoors. The fearful test of one's theories comes on the first cold night. I heard of one person who enjoyed it through the summer and autumn, and then one night late in November the mercury suddenly dropped to the neighborhood of zero. His New England conscience began to work on the subject of the furnace and drove him to his duty. Then came the tug of war. Should he crawl back into the fearful cold or go to his comfortable room? The porch won, and now all the members of the family follow his good example. A sleeping-porch, to be successful, should be well screened in summer and be as airy and open as possible. The couch, or couches, should be so placed that they are protected from the rain. Gloucester hammocks, made of canvas,



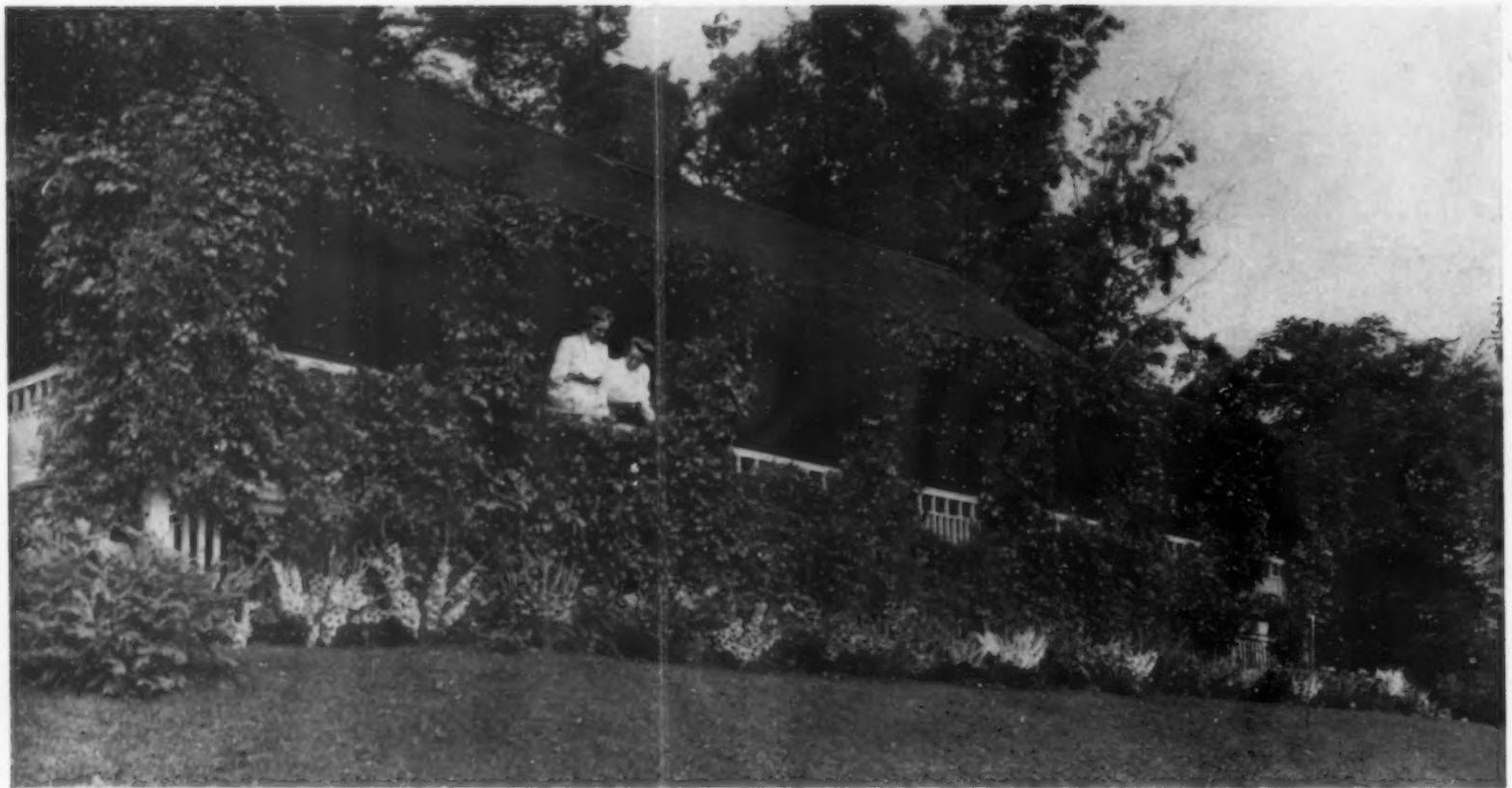
A corner of Mr. Ernest Thompson Seton's home at Coscob, Conn., where a corner of the roof covering is left off to secure the cheer of the sunlight

swung on chains from the roof, are very comfortable. The porch should open from a well warmed dressing-room if it is used in winter. With flower-boxes along the railing and an awning it will make a very charming little upstairs sitting-room during the day. One could get a great deal of pleasure from it for one could lie in the hammock and read in peace without the fear of being interrupted by a sudden descent of callers.

(Continued on page xx.)



The practice of serving meals out on the porch is gaining in popularity. The Japanese rolling screens insure privacy



You can secure a very prompt and attractive effect by planting *Gladiolus* bulbs now as a border for the summer home

The Garden for the Temporary Home

SUGGESTIONS FOR THOSE WHO MOVE INTO A NEW HOME OR A SUMMER ONE LATE IN THE SPRING—WHAT TO PLANT FOR QUICK BLOOM

BY IDA D. BENNETT

Photographs by N. R. Graves, the J. H. McFarland Co. and others

ONE often hears the dweller in the country, or the cottager say: "We are only going to be here a summer, so it will not be worth while to start a garden, only to abandon it when we move." But why should one feel that he may only have the sort of garden that has to be abandoned—the garden of slow-rooting, slow-growing, sturdy things? Why should he not bethink himself of the joy to be had in a passing garden of beautiful annuals, quick-growing, hardy, friendly to indifferent soil and generous in demanding little care?

The garden of perennials and hardy shrubs is a beautiful thing, rich in possibilities, but it is not the only word in floriculture; there is a vast array of lovely and desirable things to be had for the expenditure of a little, a very little time and money. To begin with, there is all the proud array of annuals which may be raised from seed, blooming in a few weeks from the time of sowing, and after them come the little seedlings of all sorts that one may buy from every florist, to transplant, or in the garden one starts in midsummer, the already well grown and even blossoming plants that will thrive when properly set out in their new environment. All these will prove that there is little excuse for the lack of some sort of a garden even in the temporary home, if one really wishes to have one.

Among the flowers one may have in any garden are the ever popular Asters, so greatly improved in the past few years as to be significant rivals to the Chrysanthemum. This improvement is principally noticeable in the size and shape of the flower. Formerly much yellow center appeared in even the best of the

Asters, but this has been gradually cultivated out until now it is little in evidence. The fluting and waving of the petals of the flowers is another advance in culture, and some of the Asters are veritable fluffy balls, as for example the Comet Asters and the Ostrich and Peony-flowered varieties. Many people find the red and purple Asters attractive, but personally, I prefer the white and shell-pink varieties. Asters are one of the easiest flowers to grow, the seed germinating in from three to five days and the plants usually growing on finely from the start. Of course for very early flowers the little seedlings that have been started in hotbeds, coldframes, or inside in flats, will have to be procured from the florist to set out in the new garden. Good garden soil will grow Asters to perfection, and either a shady or a sunny place will suit them. Indeed I have never found Asters exacting in any respect, but they should not be allowed to suffer for water at any period of their growth, especially when they are coming into bloom. The Aster disease, which was so prevalent a few years ago, seems to have about disappeared, and the Aster-beetle is less in evidence. So one will not have to devote much time to the plants once they have their start and are kept free from weeds.

The Scabiosa is another annual easily grown and a most prolific bloomer. Like the Aster, plants of it should be procured from the florist, if early flowers are expected, and the seedlings transplanted out in the open. Lovely shades of color are found in the new hybrids of this flower: pure white, flesh color, azure blue, rose color, terra-cotta and purplish black—this last an ex-

ceedingly rich-colored flower. Their long stems render them admirable for cut flowers and they are lovely either for wearing or for tall, slim glasses of crystal. They require no special culture, and anyone can succeed with them.

If started in good season, the Antirrhinums will blossom the first season, and are admirable for cut flowers. This applies likewise to transplanted seedlings. Some of the new varieties are magnificent, especially the Giant Scarlet, Giant Pink and the white varieties. A bed of these bordered with the dwarf

Queen of the North—a pure white, about a foot in height—will be a joy all summer and the source of a boundless amount of cut flowers; and they should be cut, and not allowed to go to seed, as that would shorten their season of bloom. Such a bed may be edged with Sweet Alyssum, Lavender, Ageratum or Verbenas in scarlet and white, or the new Mayflower Verbena—an exquisite flower.

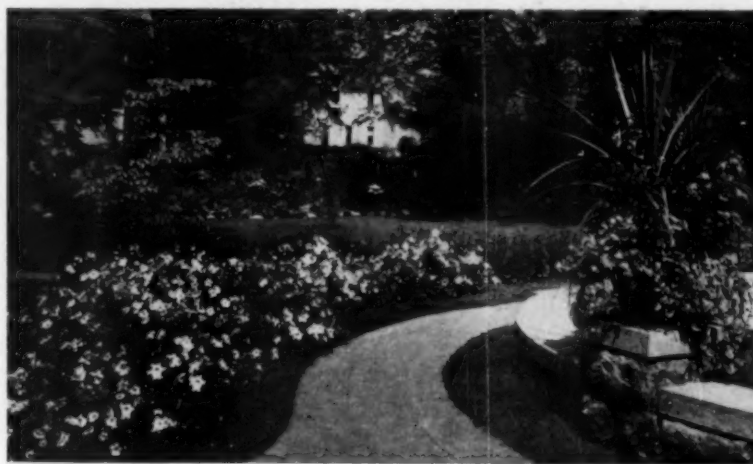
Ten Weeks Stock is a delightful plant to grow for cut flowers, as it is not only beautiful in itself, but also possesses an exquisite fragrance. Like all of the preceding, it should be grown from seedlings that have been started under cover, and planted out when the weather is warm. However, its seeds germinate quickly, like those of the Aster, making it especially available for the temporary garden.

The Bachelor Button, or Cornflower, is also easily and quickly raised from seed—the seed germinating in about three days either under cover or in the open ground, and the plants will be a mass of flowers all summer, seedlings after the first bloom giving a later succession of flowers; they are charming for cut flowers.

Then the dainty Schizanthus is well worth cultivating in the summer and often covers itself so profusely with blossoms as to hide its foliage entirely. Its seed should be sown at intervals

of a couple of weeks apart, as it blooms freely but once.

A certain amount of white is always necessary in any garden for the happiest effects, and one always wishes plenty of white flowers for cutting. This is made possible by sowing freely seed of Candytuft—the variety Empress is excellent for the purpose, the spikes of bloom being produced with great freedom and of enormous size. The long-



Petunias will thrive in almost any soil and they make a brave showing in a border

spurred, white Columbine, though a perennial, will bloom the first year from seed and has an airy grace peculiarly its own, which does not occur in any other flower. Columbines (*Aquilegia*) are lovely in beds by themselves, or when used to border taller plants.

The summer garden will hardly seem complete without a bed of Pansies. These may be had from plants that have been started very early in a cool window in the house or in a coldframe, and plants already budded and in flower thrive hardily when set out in

the belated garden. Keep cutting the flowers to prolong the bloom.

Flowering vines afford one of the strongest features of the temporary garden, as one can always find a place for a vine, even though there be no room for a flower bed. Nasturtiums, Morning Glories, Sweet Peas, may all be grown with little labor or cost, and the *Cobaea scandens* will delight one with a profusion of flowers throughout the summer, and will flourish on the north or west side of the house long after the frost has cut down most of the garden's other treasures.

The above are a few of the available annuals for quick growth in the temporary garden, but they present a selection which cannot fail to afford great satisfaction to the gardener.

But one need not confine his selection of plants to annuals alone. Very attractive temporary gardens may be quickly evolved by the use of such plants as the Canna. Cannas are about the most ornamental and tropical looking of plants seen in private and public gardens, and most attractive beds will result from a selection of the fancy-foliaged plants such as *Canna musifolia*, Black Beauty and the like, while the large, orchid-flowered kinds—Austria, Burbank, Allemanni, Italia and the like, are not only very effective on the lawn but also valuable for cut flowers. These also may be grown from the roots, or bought already started from the florist; large beds of the taller varieties, bordered with the dwarf forms, and edged with a border of dwarf Nasturtiums are beautiful and effective, or Caladiums may be used in connection with the Cannas with tropical effect.

Ricinus makes a handsome bed, and as it is easily grown from seed and makes a very rapid growth once it has become established, it is to be especially recommended for the temporary garden.

(Continued on page xvi.)



Nasturtiums bloom very quickly from seed. The dwarf and climbing varieties will fill many bare spots



For the temporary home you can at least have flowers in boxes around the porch railing



Here is an opportunity such as may be found near most eastern cities —an old house and two acres at a rental of \$50



The back of the same house from the orchard. The terrace suggests wonderful possibilities for future development

The Farmhouse Reclaimed

THE WONDERFUL OPPORTUNITIES FOR ACQUIRING COUNTRY HOMES FOR SUMMER OR ALL-YEAR USE IN THE WELL BUILT HOUSES OF A CENTURY AGO

BY ALFRED MORTON GITHENS

Photographs by the author and H. H. Saylor

[This is the first of two articles by Mr. Githens. It tells of the available material on the outskirts of most of the large cities, that may be adapted with little difficulty or expense to modern needs. In the second article, to appear next month, the specific problems of remodeling will be taken up, with concrete instances of common types as they are found and just what should be done in the way of alterations.—EDITOR.]



As a modern city overgrows her boundaries, as her citizens must more and more find houses outside her limits, so the old farmhouse finds new neighbors. Strange to say, it generally lingers on in a more or less dilapidated condition till most of the surrounding land is sold. Real estate men consider it adds little or nothing to the value of the land while a new, cheaply constructed cottage is valued at its full cost. Of course sometimes the old houses must be repainted, rotted roof shingles renewed, plastering

repaired or replaced, but the sound old frame is there with its

simple homely outlines, and generally in an architrave or mantel some delicate piece of decorative wood carving. The walls are perhaps filled in with brick; the timbers framed together with oak pins instead of the nails used now—as everyone knows, far stronger. Sometimes a house may be found where repairs are unnecessary; then the purchaser is doubly fortunate. My own house was built over a hundred years ago, but it happens to have been in fairly good repair. With its two acres of land, it cost me less than half what such a house would cost to build to-day with the inferior modern framing.

For a satisfactory tenant, I find a general willingness on the part of the landlord to make small repairs, repaint, or even install heating or light-wiring; but of course it is better to buy outright if one can, for there are many little improvements that suggest themselves from time to time, and one is tempted to rearrange the grounds or plant shrubbery and perennials which



The rear of the same house. The long porch, glazed-in in winter, commands the view over the meadows



"The House with the Well Sweep" stands close to the road but its privacy is insured by the long stone wall



Three more views of "The House with the Well Sweep"—the path to the barn showing the picturesque service end, the house from the garden with the stone wall at the right, and the old front entrance

all accrue to the landlord's benefit at the end of the lease. As a purchase these houses are good investments, too; I have been offered considerably more than I paid for my house, and a neighbor has been offered double what he paid for both house and improvements.

There are many neglected farmhouses in the lanes and highways of this hilly rock-bespattered Connecticut country. They are elsewhere too; west of New York, along the Hackensack Valley, or scattered throughout Long Island, are the low-eaved Dutch houses which have been the inspiration for much of the new country house work as described in the recent February issue; Boston has her prim clapboarded houses, as through Lexington or Salem; Philadelphia her stone farmhouses and their great barns with sturdy whitewashed pillars; the cities of Ohio, Tennessee or Kentucky, each has its square farmsteads—these Connecticut houses are only examples of what may be found around any large Eastern city. They are alike in their quiet and unobtrusive dignity; one does not tire of them as he does of their more ostentatious neighbors.

Most of them stand behind old elm trees, close to the roadside, with a straight path to the road in front; the rear is given over to tangled briars and ash-heaps. It is strange how the past



The rear of the house pictured below commands a magnificent view over a large orchard sloping down to the Mianus river

generation seems to have found its amusement in watching passing neighbors from the "piazza" it generally strung along the house-front, careless of the old gabled entrance porch or "portico," destroyed to make room for it. What the last owners did we must undo; the part they neglected we must develop into the living portion of the house. Happily the days of "front" and "back" are over, and now there is a return to the wiser English tradition of entrance front and garden front; the garden is no longer between the house and the road, but behind or at the end, screened in some way from the automobile dust and curious gaze of passers-by. The kitchen is eagerly seized for one of the living-rooms (it was really a living-room in the old democratic days), and a new scientifically planned kitchen is built at the end perhaps, out of the way.

The House with the Well Sweep is of a type built shortly after the war of independence, steep-gabled with delicate cornices unaffected by the later Greek revival. It interests me particularly, because it is most like my own house, but it retains the original small entrance porch while mine has gone to make way for the almost inevitable "piazza." The columns, however, have been replaced by square posts (notice the columns of the Round Hill House; these are of the same original type). The



One of the more pretentious types showing the effect of the Greek Revival and corresponding to a southern "mansion"



The same house from the garden which is hidden from the road by the white fence. Photographed too early to be at its best.



A house built in 1765 that has been kept in splendid repair throughout its lifetime—remaining in the same family. The old box-bushes flanking the porch have grown so high that they shut out the view from the lower windows

house is but a few feet from the road, but cleverly screened therefrom by stone wall and picket fence, with masses of shrubbery behind.

The present owner has built the rear porch and terrace overlooking his hundred or more acres of farm land in the valley toward the west, where the Mianus River winds slowly through its low meadows. To the south he has developed a flower garden, photographed here in its autumn tangle. The interesting arched gates are, of course, modern; the seats of the entrance porch are a restoration.

Behind a row of enormous elm trees on the Post Road further down the river is a house built in the year 1818 (illustrated at the top of page 216); it could be occupied just as it is. I first saw it two years ago in late February. Since the first of the year we had been in search of a house with moderate rent whose rooms would be large enough for our heavy furniture. We had explored one suburb after another and had found small new houses in plenty, but they were invariably close to their neighbors with no gardens, no privacy, nor space for either. If one insists on a modern house at a low rental he must be willing to sacrifice these things; to us they outweighed anything a new place could offer, and this house gave all we required. Its large win-

dows opened to the south on a terrace with apple orchard beyond, and westward to a ploughed garden at the lower level. A small brook meandered through the orchard and beside it the grass was just turned the early spring green. A window had been left unlatched and I climbed in; the old-time parlor and dining-room, with singularly beautiful gold-veined black marble mantels, a smaller smoking-room, a library facing the garden and the usual kitchen and service rooms were what I found, all so excellently disposed that it seems worth while to give a plan of the place and a suggestion of how it might be developed; but of this in the next issue. To us it promised much, but from the owner we found it had been rented the day before.

Close to this house is one of the most interesting of all the old houses. Built in the height of that period when the beauty of a building was measured by its exactitude in reproducing Greek motives, with its great columns copied directly from the Parthenon, it overlooks and dominates the river valley, not at all the farmhouse type, but suggesting rather a Southern "mansion." The lawn to the rear, studded with apple trees of great age, slopes down to the river-bank; the garden to the south is interesting through the summer with its masses of flowers hemmed in with clipped grass borders; where
(Continued on page xviii.)



"The Round Hill House," with its delicately carved entrance porch and another pair of great box-bushes

Grow Your Own Vegetables

V.—GETTING IN THE SUCCESSION CROPS—VEGETABLE INSECT ENEMIES AND HOW TO OVERPOWER THEM—THE NECESSITY FOR UNRELAXING VIGILANCE IF YOU WOULD HAVE BANNER CROPS

BY F. F. ROCKWELL

Photographs by Nathan R. Graves and the J. H. McFarland Co.

[This is the fifth of a series of articles which will cover in a thorough and practical way the subject of amateur vegetable gardening. The aim is to furnish the information covering every detail of what to do and in such a form that it will be clear to the very beginner just how to do it. Each article and its tabular data will give the information needed at the time of its publication, so as not to confuse the home-gardener with an overwhelming quantity of detail; that is, the reader will learn what is to be done at the proper time for doing that particular thing. Those who follow the suggestions made, from the selection of seed to the storing of winter vegetables, may confidently expect a successful garden.—EDITOR.]

PERHAPS the most common and biggest mistake that the beginner at gardening makes is in letting up with his planning and work as soon as the "spring rush" is over. He has labored faithfully, and now carries proudly to the kitchen of his vine-wreathed villa a bunch of nice tender green onions, and a crisp head or two of lettuce. Radishes are plentiful. The cauliflowers are



The great danger now in the vegetable garden is in relaxing your vigilance. Keep fighting the drought and pests to secure vegetables like these

heading; the cabbages are growing a luxuriant bluish green; the peas have covered their wire or bushing, and are stretching out tendrils in search of further support; and corn and beets and beans are growing over night. With things so flourishing, and the weather getting uncomfortably warm, what a temptation to sit leisurely back on the veranda, enjoy a mild smoke and the fat fiction number of the latest magazine, and "let things grow!" But, alas, for him who yields! A single hot day may turn green and bitter the forming heads of cauliflower, if they are left unprotected; a visitation of striped potato beetles may in twenty-four hours work havoc with the thrifty young egg-plants; weeds neglected a day or two too long, then helped on by two or three days of rain, may mean good-bye to the promising start onions or carrots or celery have made. Eternal vigilance is the price of success. There is no royal road in gardening to even so humble a reward as a cool green cucumber. So, if before, you've been at work with your coat off, lay aside now your vest also, and we'll go the rounds of the vegetable garden and see what needs attention.

First of all there's the little plot of ground which early in the proceedings we laid out for a seed-bed. It is time now to procure, if you haven't them already on hand, seeds for your late crops of cabbage, cauliflower, Brussels sprouts and kale. If you are not familiar with the two latter, do not fail to try them this year, especially the sprouts. They are very easy to grow, and don't have to be stored for winter use, as you can leave them right in the field, where the frost and snow only improve their quality, and use them up until Christmas. By many they are preferred to the best of cabbage. And for your cabbage, try a few at least of the Savoy, which is much finer in flavor than the ordinary sorts. For a variety to keep over winter, for use in the spring, Danish Ball-head, or some type

of it, will prove most satisfactory.

Any time, from about the first of the month, be ready to sow your seed as soon as possible after a good rain. If none comes, give the seed-bed a good soaking the day previous to planting. If the soil has become packed or weedy since plowing, spade up a part of it, rake it off smooth, and in drills about one-half inch deep and twelve to eigh-

teen inches apart, sow the seed thinly. (A packet of each variety will give plants enough for the ordinary home garden.) Before covering, press the seed firmly into the soil with the edge of a board or of the sole of the shoe, and firm the earth over the drill after covering. If the plants come up too thickly, thin them out *as soon* as the third or fourth leaf appears, for they will grow rapidly, and cannot be thinned without damage as soon as their roots begin to get tangled up in each other. If the sun is bright, give a copious watering just after thinning. In four to six weeks they will be ready to "set out" where they are to mature. Do this work too, if possible, just before or after a rain; or better still, if you do not fear a little clean mud, *during* one. If no opportune rain comes along, transplant late in the afternoon, and shade the plants with half a sheet of newspaper, held in place by a handful of earth, for two or three days during the heat of the day—say from ten to four o'clock. Read carefully the directions for transplanting given in the April number of *HOUSE AND GARDEN*, page 133.

Try to have your succession crops follow vegetables of some other kind—for instance, put your late cabbage after a crop of peas, lettuce, or spinach, *not* after early cabbage or cauliflower. Turnips and cabbage also should not be used in succession.

Try to follow this principle also with the crops of which you make succession plantings—lettuce, endive, peas, beans, beets, turnips. *Don't wait till your last head of lettuce is used before planting the next crop.* Plant a short row in the seed-bed at least every two weeks, and have plants ready to set out wherever opportunity offers. For instance, as the early beets begin to have blank spaces in the rows (which are fifteen inches apart), put in three or four dozen lettuce, or endive. Try some of the "cos" lettuce, that blanches at the heart, white and tender, even in the hot summer days. Unless your supply of tomatoes is



Try planting some Brussels sprouts. The tiny heads are far better than cabbage

neglect of this detail is the cause of poor germination.

By care given to planning *now* you can make your late summer and fall garden as interesting and satisfactory as it should be during June and July.

Do not, however, neglect your crops that are just coming to maturity. In the fight with weeds you should by this time be complete master of the situation. But the fight with insects is still to be carried to the bitter end. The following vegetables especially will have to be watched: Cucumbers, musk-melons, pumpkins and squashes, for FLEA-BEETLE (a tiny, black, hard-shelled insect), STRIPED BEETLE (an active little enemy, with a striped costume significant of his criminal instincts), and SQUASH-BUG (the big, spindle-legged black fellow who moves crab-like in any direction, and has a very offensive odor). The last is the most dangerous of the three, and is fatal if allowed to begin to multiply.

The best protection for the young plants is afforded by boxes of thin board, about eighteen inches square, and four to eight high, covered with cheesecloth or mosquito-netting. These are inexpensively made, and with care last many years. If you cannot provide them, keep the leaves of the young plants covered with a layer of finely sifted coal or wood ashes, or common plaster. This affords a *mechanical* protection. Hellebore, tobacco dust and kerosene emulsion will help to kill or drive away the pests. If you are making your garden produce as it ought, it will pay you well to have a compressed air sprayer, for applying insecticides and fungicides in liquid form. There are two types, the knapsack and the cylinder, the latter for ordinary work being more convenient. Whichever type you get, be sure to buy the machine with *brass* working parts. It costs a little more, but will outwear several of the tin and iron grades. Especially if you have a few fruit or decorative trees, will such a machine be indispensable in these days of insect pests. For very small gardens, a tin or brass "reservoir-and-pump" sprayer will do, but the better grade instrument will pay for itself in longer

abundant, start now a few plants of a main-crop variety. A supply of green tomatoes in the fall will be doubly useful for pickles and preserves, and also to ripen for Thanksgiving, or even Christmas, as will be described in a later article of this series. Above all, be sure to firm well in the soil all seeds planted at this season of the year, when the ground is likely to be hot and dry. In nine cases out of ten, if your seed is good,

service and better work,—other gardening years are coming.

Bordeaux Mixture, for fungus diseases, such as blight, and arsenate of lead—which is safer than the old standard Paris Green or London Purple for eating insects, such as potato-bugs—are now put on the market in ready prepared forms, which need only to be diluted with water for use. There are several cheap and effective little "blowers," described in most seed catalogues, for the application of insecticides in powder form. But generally the spray is more satisfactory and effective, for with it the poison can be put on more evenly, and in a form which will last much longer.

Watch cabbage, cauliflower and Brussels sprouts carefully for the green CABBAGE WORM. On small patches hand-picking is the easiest and most effective remedy for him. The presence of ROOT-MAGGOT, a small white grub, will be denoted by the plants wilting and dying down without apparent cause. Affected plants should be taken up and carefully destroyed, or nearby plants will become infested. A dressing of hen-manure or guano and nitrate of soda will give the plants fresh strength to resist his attacks, and the soda seems to be effective in driving him away. A light sprinkling of coarse salt will sometimes stop his work. This aggressive and insidious invader is likely also to attack your onions. Use the same treatment as for cabbage.

Keep an eye open daily for the COLORADO BEETLE, OR STRIPED POTATO-BUG on potatoes, tomatoes, and especially egg-plant. Paris green, mixed with either water or plaster (read directions on the box), or blown on pure in invisible amounts with a bellows or "gun" made for the purpose, will destroy the young larvæ, which do most damage to potatoes. For the tomatoes and egg-plant, where you will have only a few dozen plants to watch, hand-picking, or spraying with arsenate of lead, will be better and safer. It is put up prepared in a thin cream paste, which requires only stirring with water. An over-dose will not burn the foliage, as is often the case with Paris green.



Sow Kale (or Borecole) now. The fleshy leaf stems are edible besides the leaves

FIGHTING THE DROUGHT

Have you ever noticed how nice and moist your foot-tracks, especially the heel-prints, remain when you have pushed the wheel hoe through your garden? That is not because the dampness is staying there, but because it is *coming out*. And the soil you have worked, which seems to be drying out so fast, almost to dust, you will find on scraping aside half an

(Continued on page xx.)



You will need a spraying outfit. If the garden is small a brass hand-pump will do



An outside stairway leading to the studio proper shows characteristic Norwegian detail

Experiences in Building Summer Homes

VARIOUS TYPES OF HOMES BUILT FOR OCCUPANCY DURING THE SUMMER MONTHS—WHY THEY WERE BUILT THUS, AND HOW

Photographs by Jessie Tarbox Beals, Mary H. Northend and Others

A Norwegian Type of Studio

BY RUSSELL FISHER



Living-room, bedroom and bath are on the main floor, with the artist's studio above

A PLEASURE journey through Norway several years ago was the direct cause of the Norwegian style of architecture in the studio illustrated herewith. While a random selection of an architectural style from another land and another people is not usually justifiable for our domestic work, resulting too often in an exotic effect, at the same time there is reasonably felt to be a wider latitude of choice in the design of an artist's studio that is occupied only during the summer months. After

all, too, the building needs no justification on the score of style—its picturesque mass and interesting detail are enough justification in themselves for its existence.

The studio was built in 1902 on the estate of Mr. G. Theodore Roberts at Onteora Park in the heart of the Catskills, for the use of Miss Roberts. Whole spruce logs were used for the walls, uncovered inside as well as outside. The milled woodwork of the exterior—turned corner columns, finials and other



Spruce logs were used for the first-story walls, with uncolored oiled woodwork above, and a roof of hemlock slabs. George A. Reid, architect



"The Old Red House," Rowayton, Conn., from the garden side. Remodeled for the summer home of two New York women

trim is without paint or stain, but each year it is given a protecting coat of oil. For the roof hemlock slabs were used, giving a rough, shaggy texture that harmonizes well with the remainder of the building.

On the lower floor there is a living-room, sleeping-quarters and bath. The studio proper is on the upper floor, which it occupies entirely. Here the side walls are covered with burlap, but the rough round logs used for the roof rafters were left uncovered. The room is very high as may be seen from the photographs of the exterior; and a gallery crosses one end of the upper part, affording convenient storage space for large stretchers, packing-cases and the various other bulky accumulations about an artist's studio. A big stone fireplace, seven feet wide, is located at one side of the room. An outside stairway approach for the use of models and visitors, gives the opportunity for one of the most charming bits of Norwegian architectural detail in the arcade illustrated on the preceding page.

A Remodeled Connecticut Farmhouse

BY KATHARINE NEWBOLD BIRDSALL

SOMETIMES a very small thing turns the scale when one is selecting a summer home. Two professional women, visiting in Connecticut last spring, passed an old farmhouse in Tokeneke Park, Rowayton, Conn. They had no intention of buying, but the noble elm trees guarding the farmhouse, and the beauty

and simplicity of the Colonial door, turned the scale. They could not resist the calling of the old house and its two acres of good ground. To-day the house stands transformed, "a perfect paradise on earth," the owners declare. Perhaps the fact that the owners are artists—interior decorators—has helped in the transformation. But a little common sense, and some old furniture, quaint prints and suitable wall papers, go a long way toward making the average farmhouse very livable.

"The Old Red House" was built in 1765, and the sturdy oak beams are still firm and solid. The first thought of the new owners was to restore the house, inside and out, to its original Colonial simplicity; adding, however, electric lights, steam heat and running water.

In some of these old Colonial houses, it is hard to tell which side to call the front. The Old Red House has no front: it has the "gate-side" and the "well-side," and the Colonial hall opens equally attractively upon both. The gate-side originally had a large covered porch on the extension; this has been almost entirely removed, just enough of the flooring having been left to come flush with the body of the house. The remainder of the porch is spanned with small beams to make a sort of pergola, which admits a flood of light into the dining-room.

The doorway that so strongly and successfully invited the purchase of the house, is typically Colonial, with hand-hewn posts and ornaments. The semi-circular transom is an elaborate tracery of leadwork, showing an American eagle pattern. Nothing was needed here but the renewing of a few of the ornaments. The ceiling of the little porch is plastered. The door itself, sunbaked for ages, was left as it was, blisters and all. Two Colonial seats, painted white, and made after an old pattern, were fitted to the spaces on each side of the door. The house was repainted a Colonial red, with white trim and light blue-green blinds.

The old roof of course required re-shingling, and the new shingles were stained a weatherworn brown. Shingles were also put over the clapboards on the extension to make the rooms warmer. Most of the blinds had to be renewed, and a window was cut in the woodhouse. The latter was also re-shingled, thus making it available for a servant's bedroom.

Nothing further was done to the outside of the property the first summer. This year a formal garden has been started on the gate-side near the house and extending to the stone wall and hedge; and a vegetable garden further to the right.

The Colonial hall had been divided into two rooms by former owners, and it was necessary to remove the partition to



In the living-room the paper is a green and white stripe, with furniture coverings in large-figured English chnits



A bay-tree patterned paper in green and cream covers the dining-room walls. The furniture is Old English

recover the original hall. Then a paper in soft grays, a pastoral design of cows and sheep, was put on the walls downstairs and up. When this was done, the hardwood floor stained light green; the hand-made woodwork painted white; an old settee, half-moon table and rag rug in position, the effect was all that could be desired.

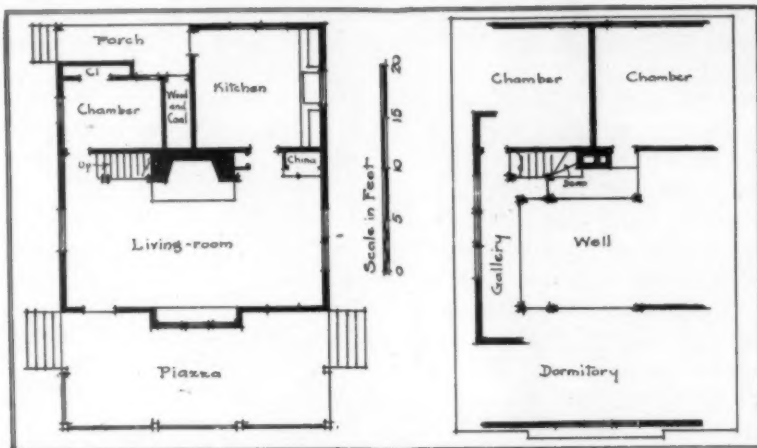
The partition which divided the kitchen into two small rooms was removed; the walls colored yellow; a white enameled sink introduced; and blue lineoleum was selected for the floor—a paradise for a maid!

All of the ground-story floors were relaid in hardwood and were stained green to match the hall. The ceilings are very low, and the wall papers odd and truly old-fashioned.

The dining-room, with its flood of daylight, has perhaps the most charm of any room in the house. The crane and copper kettle are there; the old andirons with brass knobs; and also



Mr. W. P. Hubon's camp near Salem, Mass., built of weathered shingles at a cost of \$1100



The living-room of the Hubon camp opens up to the roof, with a gallery around three sides

the brass "footman," an old English institution for keeping one's breakfast warm.

In the living-room, where the floors are also bright green, is more old English furniture, upholstered in large-figured English chintz. The paper is a green and white stripe.

A tiny library opens off the living-room, and is connected with the hall by a small passageway under the stairs, with closets to delight any housewife's heart. One of these closets

had to be sacrificed in order to secure a stairway to the cellar through the house. Originally the Old Red House, like most of those of its day, had the cellar stairs only from the outside.

Six bedrooms were contained in the second story, and their old-time battened board doors, with iron latches, were left as they were. The floors, being of wide irregular boards, were covered with plain Japanese matting. The papers on the walls are reproductions of simple Colonial styles. In the large front room there is a good open fireplace and cupboards. The smallest bedroom was converted into a linen closet with plenty of wide shelves; another was turned into a bathroom; a third into a sewing-room. The others, with draped four-poster beds, and a few other pieces of old furniture, have made charming rooms. In the attic, which had never been finished in any way, two good-size rooms were secured by covering the rafters with smooth boards and building wooden division walls.

Surely this is a successful solution of the summer home problem for two women worn with business cares, for their families and friends; and surely a home worth possessing, not only for the comfort it gives, but as an investment.



The stairway leading to the two upper bedrooms and dormitory, and the great stone fireplace



A bay-window and seat occupies the side of the living-room opposite the fireplace



If you cannot get away for the Summer you can build a sleeping-room in the garden

An Outdoor Bedroom in Pasadena

BY ALVICK A. PEARSON

IT is estimated that two thousand people in the city of Pasadena sleep out-of-doors, or, what is practically the same, surrounded only by wire netting in screened porches or specially arranged out-of-doors bedrooms. One of the most convenient and attractive of these screened-in bedrooms is shown in the accompanying photograph. It is owned and occupied nightly by D. W. Coolidge, Secretary of the Pasadena Board of Trade, and his family. One year ago Mr. Coolidge caused this little cabin to be constructed right in the midst of his famous garden of shrubs and flowers, and after a twelve-months' use he contends that no money could induce him to abandon it. The building measures 10 x 20 feet.

A Permanent Summer Camp

BY MARY H. NORTHEAD

THE interesting little camp, illustrated herewith, is the property of Mr. William P. Hubon, of Salem, Mass., and it was built at a cost of \$1,100 from plans of the owner, who



A Summer home of the Craftsman type, the living-room of which opens wide upon the corner porch

designed it as a retreat where he and his friends could spend the summer months and enjoy week-end gatherings all the year round. It stands on a sheltered site surrounded by trees, at a point about a mile back from the main highway that leads from Middleton to Salem, and it overlooks the picturesque shore of the Ipswich River, and the near-by stretches of meadowland and woodland dotted at intervals with camps.

The exterior finish is of weather-stained shingles with trim painted white, and the quaint gabled roof, broken at intervals by groups of dormer windows, is also shingled. A broad veranda, fifteen feet wide and twenty-seven feet long, extends across the front of the house, and it serves the purpose of outdoor dining-room during the summer season. Its roof covering is formed by the flooring of a second-story apartment, built out above it and supported at the outer edge by stout posts. Beneath the veranda is a storage place for canoes, concealed from view by an attractive latticework arrangement stained to match the trim. At the rear of the house a small covered stoop connects with the kitchen, and is convenient as a storage place for wood, etc.

The entrance door opens from the veranda into a spacious apartment, which serves the double purpose of living-room and dining-room. It is open to the roof, showing the rafters, and its walls, like the rest of the interior, are sheathed in North Carolina hard pine, shellacked, and the floor is of the same material shellacked in white. The feature of the room is the great open fireplace at one end, which measures twelve feet in width and is built of rough stones picked up on the estate. It is fitted with all the old-time fire implements and the andirons are contrived from pieces of railroad iron bent into the proper shape.

From one end of the apartment opens a well appointed sleeping-room, and to the right of the fireplace a door connects with the kitchen. In a corner beside this doorway is a cleverly designed china cabinet and sideboard combined, with space beneath for linen, and directly opposite is another large built-in cabinet with a set of drawers underneath. Opposite the fireplace is a broad low window, below which extends a softly cushioned window-seat with locker. On either side of this window are low built-in cupboards, and throughout the house these same space-utilizing devices are cleverly arranged.

To the left of the fireplace a short flight of stairs ascends to a balcony that extends around three sides of the room and serves as hallway for two nicely furnished chambers and the apartment over the front veranda which is ordinarily used as a sitting-room, but can be readily transformed into a sleeping-apartment when the camp contains an overflow of guests. Built-in lockers fill in spaces between the chambers and at one end of the front apartment, and serve as receptacles for the storage of extra bedding, etc.

The kitchen is the gem of the whole house and contains many interesting space-saving features. At one side is the porcelain sink, below which are closets for pots and pans, and on either side of which extend broad shelves. Beneath the shelf on the right is a set of drawers for kitchen supplies, and on the wall space above is a glazed-in cabinet to hold dishes.

Opposite the sink is the stove on one side of which is a broad shelf supported on hinges, and so contrived that when not in use the supports can be lowered, and the shelf thus rests flat against the wall.

A Sectional Bungalow in Florida

BY H. E. HARTWELL

THE bungalow, illustrated at the top of the next page, is one that was built in New York City in sections as large as would go through a freight-car door, shipped to Ormond

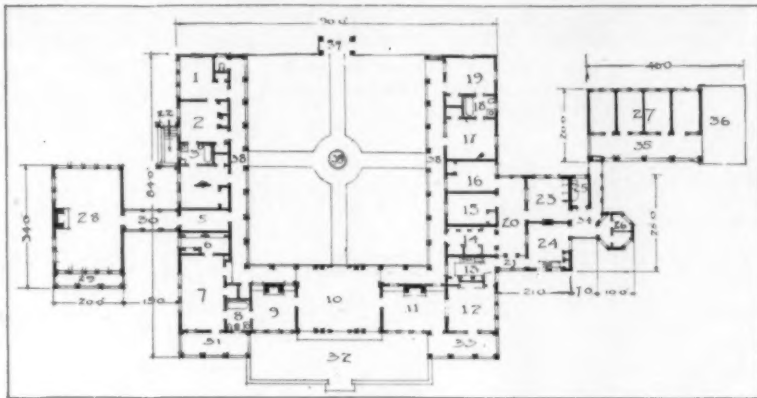
Beach, Florida, and erected there as a winter home for Mr. Israel Putnam. With all its annexes the building has twenty-seven rooms and four baths. It has a frontage of 200 feet and a depth of half that, and as the plan shows, it has a court in the center fifty feet square, which is filled with palms and orange trees.

The site chosen is on the east bank of the Halifax River, in a grove of palmettos, magnolias, orange, lemon and persimmon trees, with here and there a stately water oak, draped with the native hanging moss. An ideal spot for a bungalow, surely.

The approach is from the private dock on the shore and leads up by an easy slope with occasional steps through a long Japanese pergola to the tile-paved terrace across the front of the build-



The Putnam bungalow at Ormond Beach is built with yellow pine structural members and asbestos cement walls between



Twenty-seven rooms and four baths are found in this bungalow that was built in sections in New York and erected at Ormond Beach, Florida. Designed by H. E. and H. F. Hartwell

ing. This terrace is about eighty feet long and fifteen feet wide, sufficiently well shaded by the trees to be comfortable in the Southern winter sunshine.

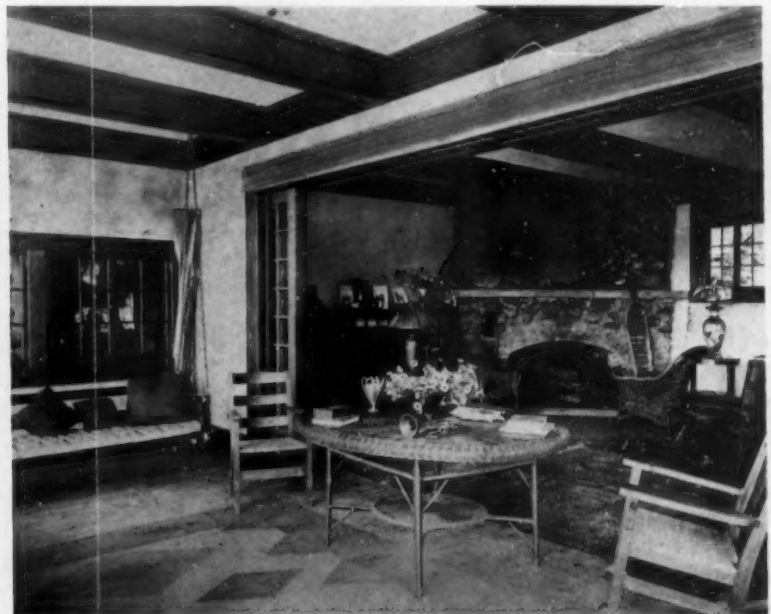
Inside the bungalow there is a variety of treatment in color and materials. The living-room, dining-room and study are finished in two shades of ivory, with doors enameled emerald green. Here the walls are wainscoted to a height of four feet, above which there are panels filled with Japanese grass cloth extending to the ceiling. Between the ceiling beams are panels of Japanese pebbled leather in light shades of gold. Sideboard,

bookcases and seats are built in, giving a comfortable informal effect in keeping with the character of the building.

The sun-parlor, which is used as the main entrance, has a red tiled floor and apple-green walls above a five-foot wainscot of gray asbestos cement. The ceiling is a pebbled light carnelian red and gold. For the four bathrooms and the master's suite white enamel has been used as a wood finish, with the doors of mahogany. In the south wing the bedrooms are stained with Japanese colors and hung with grass cloth.

Passing from the court garden under the shelter of a pergola, one descends picturesque stone steps leading into the Japanese garden. The latter was readily constructed with the wealth of palms, palmettos, ferns, orange trees and kumquats that cover numerous small islands in a space of about an acre. A more readily available place for carrying out a Japanese garden it would be difficult to imagine. The walks were laid out with stones of a shell rock formation—about the only stone to be found in Florida—in the usual random manner, leaving space between for grass and ferns.

The difference in grade between the palm court and the extreme rear is about ten feet, giving opportunity to create four lakes at different levels. Water was obtained from a driven well in such abundance that fifteen thousand gallons daily passes over the little Japanese cascades, under quaint little bridges, around stepping stones and stone lanterns until it finally finds its way through a winding brook into the Halifax River.



Two views of the porch and living-room of the house illustrated on the opposite page. Wide sliding glazed doors permit the two to be used as one throughout the summer months



Masses of lavender phlox with pink and white tulips blossom under the pergola in early May



By following the planting scheme suggested a mass of foliage and bloom continues up through frost

Plants for Under the Shady Pergola

HOW ONE VINE-COVERED PERGOLA HAS BEEN MADE ATTRACTIVE INSIDE AS WELL AS FROM WITHOUT, AFFORDING BLOOM FROM EARLY SPRING UNTIL FROST

BY ADELINE THOMSON

Photographs by the author and others

THE pergola has become an important factor in our yards and gardens, for it not only gives a picturesque setting to all styles of planting, but it lends to the garden landscape a touch of stability and character that are so desirable in the laying out of the home premises.

No serious difficulty is met in beautifying the exterior of the pergola, for climbing vines, enjoying the full benefit of open air and sunshine will quickly transform its bare, hard outlines to a tracery of grace and beauty; but the planting within the shady retreat is a problem not easily solved, for few plants thrive in so sheltered a location.

The pergola, however, has lost half its charm unless its leafy covered walk is bordered by blossoming plants, and while it is true that all varieties of flowering things are not adapted for this purpose, there are a number of them that will succeed remarkably well in the shaded area. In the past three years I have spent much time in working out a flowering scheme for such a border, and with the successful result that from early spring until late fall the shaded enclosure of my own pergola presents a constant display of changing form and color that is most gratifying.

Outlining a garden of hardy plants along two sides, the pergola stretches some ninety feet in length. The posts of the structure stand eight feet apart each way, and a gravel walk extending through the center, measur-

ing three feet in width, leaves a border two and a half feet on either side for blossoming plants. I might say, in passing, that in the entrance of the pergola (eight feet square) there is no planting, but the space serves as a out-door dining-room, containing a square stationary table and rustic benches.

In the early spring, the first flowers that unfold in the border are Hepaticas, closely edging the walk, and from the tenth to the twentieth of April these pink, lavender and white blossoms are a constant source of delight. The flowers, however, are not all that recommend the plant to favor, for attractive leaves and low-growing characteristics make it an ornamental edging plant throughout the whole season, and even for the late-planted pergola border they are worth while introducing at any time.

Masses of blossoming Phlox (*Phlox divaricata*) following in quick succession, change the border in early May to shades of delicate lavender, while the color effect is enhanced by pink and white tulips that flower at the same time. This early variety of Phlox cannot be too highly recommended for the pergola, for it thrives here luxuriantly and possesses foliage which, like that of the Hepatica, is decorative throughout the entire summer.

Wood Violets carry on the flowering scheme from the twelfth of May until the first of June, and it would be hard to imagine a more exquisite effect than that produced by long rows of these wild



A pergola on a Nahant, Mass., estate, where plants in tubs and the irregular stepping-stones make an attractive vista

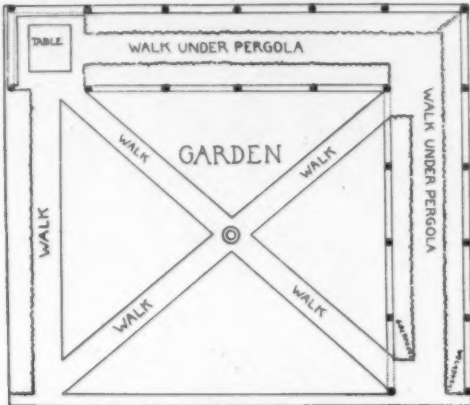
plants, literally blue with their beautiful harvest of bloom.

Stately Foxgloves usher in the month of June and remain in flower during the four weeks following. The blossoming season is prolonged at least two weeks by cutting the main stalk immediately after its beauty has faded, thus forcing the strength of the plant into the side shoots, and inducing continued bloom. Masses of blossoming Foxgloves always create a striking display, but when their stately spires are raised within the vine-clad pergola, accenting the very spirit of its formal outlines, they seem an inseparable part of their surroundings.

During the heat and drought of July, the border is refreshed by quantities of white flowers borne by Achillea (the Pearl) and the graceful Campion—another invaluable plant from the woods. At the coming of August, these flowers are gradually supplanted by gorgeous Auratum Lilies and sweet-scented Nicotianas, while they, in turn, make way for starry-eyed hardy Asters that throng the border until frost.

While, at first thought, massed planting would seem less stiff and artificial, on considering the narrow space available for the flowers, and the severe style of the pergola, it will be recognized that formal planting is the most attractive for the purpose.

The planting formed of the foregoing varieties is a permanent one, for all of the plants are hardy, with the exception of the Foxglove, which is a biennial, and the annual Nicotiana, but as both varieties self-sow, they, too, appear in their accustomed places from year to year.



It seems best to arrange the planting in rows, with the low ones towards the walk as indicated

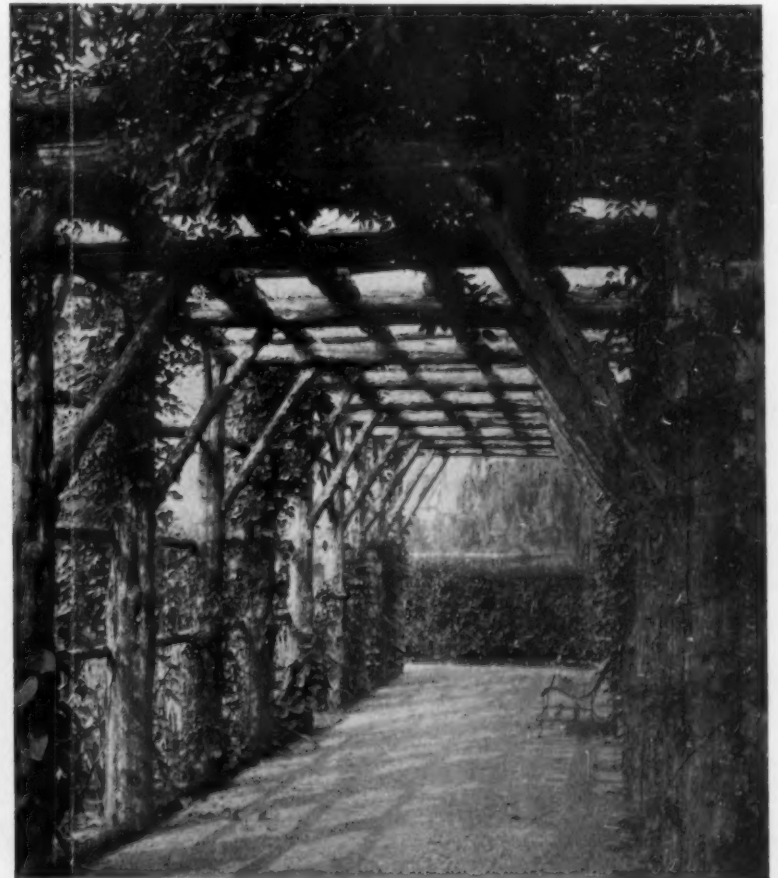
The planting within the pergola is much more effective with the flowering scheme the same on both sides of the walk, and varieties of a kind planted in rows the entire length of the structure.



The author's pergola, where the lines and border planting harmonize with the rustic structure



In the author's pergola the corner serves as an outdoor sitting-room, furnished with a table and chairs



A rustic pergola that shows an interesting treatment of horizontal outside members and corner braces inside



Most of us can find a place for a pergola, whether it be of rustic construction or of plastered columns with oiled wood-work. There is no excuse for one however, that does not lead from somewhere to somewhere.
Chas. W. Leavitt, Jr.,
landscape architect

The summer home owner that has a pond or even a small brook available for development is to be envied. The possibilities in water gardening and the treatment of marshy borders open up a new side of country living.
Jens Jensen
landscape architect



One of the keenest joys in country living is that of spending all the daylight hours in the open air. Better than any sort of a covered porch is an open terrace shielded from the sun by a vine-covered pergola, as in this country home of Mr. Ralph Holton, Elmsford, N. Y.

Whether your outdoor living room is an open or vine-sheltered terrace, or covered porch, see it that the opportunity is not lost making it cheerful and bright with flower-boxes, cool wicker furniture, a table of books and magazines, and a rug or two.

ND GARDEN

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With a striking architectural treatment bright-colored rugs are effective



Almost anyone could build a rustic seat like the one by this Adirondack shelter-camp



The Indian baskets lend color to this gray stone chimney breast

Furnishing the Camp or Summer Home

SUGGESTIONS FOR AN IMPROVEMENT OVER THE COMMON USE OF CAST OFF FURNITURE

BY LOUISE SHRIMPTON

Photographs by Jessie Tarbox Beals and others

THE ordinary summer camp or cottage is often used as a dumping ground for cast-off furniture. Chairs and tables representing the fads of the past thirty years or so jostle each other on the living-room floor, in startling contrast with rough walls and a simple fireplace. The constructive features of the camp, usually in harmony with rugged surroundings, are completely overshadowed by this motley method of furnishing.

In the camp of distinction more restful conditions prevail, and furniture and fittings are planned with especial regard to their environment of woods and fields. The old furniture of a city home is thought unsuitable for use in such a camp, as an old top-hat or a discarded ball-gown are judged unsuitable for wear in the woods.

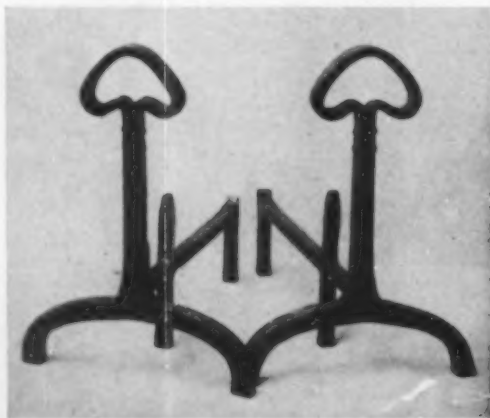
Built-in furniture is employed wherever possible and is, like the interior woodwork, of inexpensive wood. Rough seats and tables as well as cupboards and shelves are often built against the walls of a camp, adding greatly to its attractiveness and saving space. A large screen fastened to a wall is used in one instance to divide a room in two, and is folded back against the wall when not needed. In another case a movable partition is formed by a large dish cupboard reaching nearly to the ceiling, with doors opening on each side, and drawers that are pulled out in either direction. This cupboard is the division between kitchen and living-room, so that the space devoted to either room can be changed at any time. Built-in window seats are often made in bedrooms, with leather hinges and straps, and are used as clothes-chests.

An interesting variety of camp furniture is made of cedar posts, planed on inside surfaces that come into contact with the hand, and with outer surfaces left untouched except for the removal of the bark. These primitive pieces, massive in construction, seem a natural outgrowth of the woods, and are stained in forest tones of grayish green or brown. It is easy for an amateur cabinet-maker to build furniture of this type, and rainy days at camp are often utilized for this

occupation. A good example of a simple bedstead is shown in our illustration of a camp bedroom. This bedstead is unusually large, and is built of massive cedar posts, fastened together with wooden tenons and wooden pins. The natural contour of logs and saplings is preserved on the outer surfaces, and the piece is stained a green that is modified by the warm tones of the cedar. The bench in our photograph of an Adirondack shelter camp might easily be built as an indoor settle to place in front of a fireplace, and could be made comfortable with seat-cushion and pillows of inexpensive material. Morris and other chairs could be built in similar fashion. As much attention is given to design and proportion in this style of furniture as in any other, but the only finish is the satin-like quality possessed by the wood next the bark. In some pieces such as gun racks or cupboards the bark is left on, together with little branches that are utilized as hooks.

The furniture used by our pioneer ancestors in their log cabin homes was built in a simple and primitive style that is in perfect keeping with the camp of to-day. Those of us who possess a great-grandfather's chair with rush or splint bottom seats, or old chests and tables of simple pattern, can put them to no better use than in the country lodges, in surroundings that duplicate the earliest stage of their existence. Many of these relics of former outposts of civilization are still to be found in country attics or kitchens, and cheap reproductions are made by a few furniture firms in unfinished woods that can be stained or painted by the purchasers.

It is a futile undertaking to attempt to "decorate" a camp or summer cottage. The natural grain of the interior woodwork, the interesting grouping of stones or brick in the fireplace, are decorations enough for the walls. If other wall covering than a rough wainscot is needed, then building paper, a cheap Japanese matting, or even the matting from tea-chests, may be utilized. Old fence rails, or the weathered gray boarding from old houses, are sometimes employed for in-



Have your local blacksmith hammer out a pair of andirons



Use the simplest curtains, if any, stenciled perhaps with some appropriate conventional design



Build in the sideboard, bookcases, seats and such features and the summer home will need little else

terior walls with charming effect, in connection with fireplaces of gray stone. Open shelves are used to hold the necessary dishes and camp utensils, which serve as decorations when not in use. Pictures of any sort seem an impertinence in a camp where windows may be planned to frame in bits of surrounding woods or lake in interesting fashion. Leave them for city houses. The needful window curtains and draperies are of cheap material in harmonious colors. If figured stuffs or plain materials with decorations in embroidery or stencil are used, the motives employed suggest the environment of the camp; the pine cone is perhaps selected as motive for decoration of pillow covers and draperies in a woodland camp; an antique ship in full sail, or a wave or shell motive may be chosen for a seaside cottage; while whatever the design, it is conventionally drawn and simply executed. For sleeping-rooms, light-weight blankets are sometimes used as portières, hung on bamboo rods, their stripes serving as borders. Old-fashioned blue bedspreads are found to be suitable bed coverings, and blue checked gingham pillow slips are easily washed, need no ironing and are distinctly pleasing in effect.

Bare floors are the rule in camps far from civilization, but if rugs are used they are of the old-fashioned rag or braided variety, or the always harmonious Oriental rug is occasionally found. Rugs of woven prairie grass are fitting and durable.

The chipped and superannuated china of a city home is not used in a carefully planned camp, but quaint pottery is chosen

with a view to its decorative as well as to its wearing qualities. If the furniture is old Colonial, the dishes are reproductions of old blue, bought for five or ten cents a piece, or Canton, with its oyster whites and pure blues is indulged in; if massive furniture of modern make is used, then the pottery is Hungarian in vivid colors, or a cheap Japanese ware, or heavy Spanish ware in greens or browns. Sometimes ordinary kitchen pottery in browns and yellows is made to serve for the table as well as for cooking.

The fittings of the fireplace that is always the chief feature of the camp interior are chosen for the well equipped camp among models of strong and sturdy appearance. A country blacksmith is sometimes pressed into service, turning out rude andirons and fire-sets on his forge. Bellows are a necessity and a long iron rod is easily obtained and is better than the ordinary poker.

The problem of lighting and lighting fixtures, always a serious one, is usually simplified for camp dwellers into a choice between oil lamps and candles. While oil lamps are difficult to keep clean, smoky and dirty, they are more frequently employed than candles. Burners and fonts are bought separately, and placed in rough earthen jars, filled in beneath the fonts with sand to give them stability. Either Japanese paper or raffia shades are used. If candles are selected, rough wooden or copper candlesticks are made to hold them in sufficient numbers to give a good light.

(Continued on page xiv.)



A massive bed made of smoothed cedar with a satin finish



A summer home furnished with pioneer furniture 150 years old



A china-closet is utilized here to separate living-room from kitchen

The Practical Side of Rose Growing

HOW TO PRUNE—WHEN AND WHAT TO SPRAY—THE SUPERIORITY OF GRAFTED STOCK FOR THE SMALL GARDEN

BY LUKE J. DOOGUE

Photographs by the author and others



The Tea Rose, so-called from its characteristic scent, is the best for forcing

THE great interest in hardy perennials shown by everyone planning a home garden has, to some extent, affected the popularity of the Rose as a garden flower. This is a great pity. Though it must be admitted that Roses are not the easiest flowers

making a bed of Roses that will not turn out to be merely a bed of thorns.

SELECTING STOCK

Good Roses will do better in a poorly made bed than poor Roses in one having every soil requisite. There is no place in the world where, no matter how alluring the offers, it is safe to assume that one may obtain a couple of dozen first-class Hybrid Perpetual Roses for the price reasonably charged by reliable dealers for one. Roses are not to be found on bargain-counters.

MAKING A BED

"You have made your bed and now you must lie in it" is a very old saying that will be familiar to everyone. Nevertheless it is ungenerous to make a poor bed and expect your Roses to do anything but die in it. Remember that when you receive your package of Roses from the nursery, they will need attending to at once, for the chances are that they may have been several days in transit, a delay that, at best, is somewhat of a set-back to their growth.

in the world to bring to maturity, nevertheless the love of flowers should include the love of their care, for very little attention, after all, beyond that given any hardy flowers will be required for bringing a garden of Roses to successful bloom.

There are, unfortunately, many instances to be recorded of useless root-stock being acquired by the amateur garden-maker who has not been careful in ordering his Rose plants from reliable nurserymen, or who has not taken into account the climatic and soil conditions necessary to bring them to proper florescence.

One might as well expect a bed of granite to nourish a field of wheat as to expect to coax loveliness from the Rose when it is planted in the wrong soil. Roses must be nursed, tended, watched and protected, although there are many varieties which seem obliging enough, after a while, to flourish by themselves. Indeed the flower-lover should cease to hesitate Rose-planting in his garden merely because either he has been told it is a precarious undertaking, or that defeat will meet his attempts.

One does not always expect a great amount of space to be given up to the Rose in a home garden; the Rose-garden as such, that is, as a distinct garden by itself, is, of course, only to be expected in premises of greater extent. However, almost anyone who has a plot for flowers at all should have room for a few beautiful Rose bushes, or climbing Roses against wall or trellis, or a little strip bedded for a Rose border.

Under ordinary conditions it is necessary for the Rose-grower to exercise a fair amount of diligence in the matter of

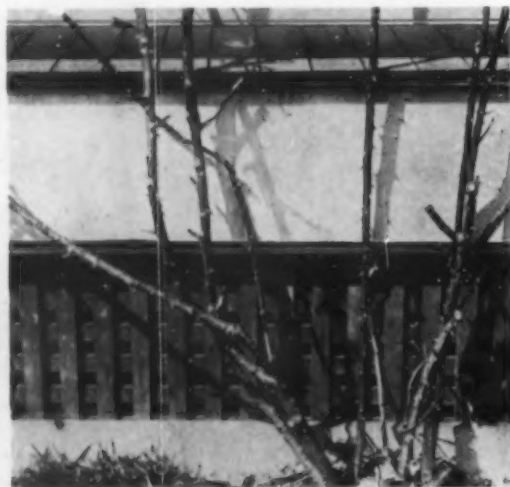
Unpack the newly received Roses, and if it is not possible to plant them in their final position immediately, heel them in—that is, make a temporary planting. If they are dried at all, soak the plants well. When you uncover them again it would be well to puddle them; that is, to soak the roots in a puddle of mud made with rich earth. Puddling greatly benefits Rose roots. The main thing is to keep your Rose plants out of the ground for as short a time as possible. Remember the roots of the Rose are extremely tender, and though they respond to care and attention, they perish almost immediately when neglected.

ROSE PRUNING

Hybrid Perpetual Roses should be pruned in the spring before growth starts. At that time about two-thirds of the previous year's growth will have been taken out, close down. Hybrid Tea Roses must not be pruned so much, nor do Ramblers need much cutting, though where a Rambler has had little attention for a long time the cutting out can be more vigorous, all old hardened canes which do not break easily and which only choke the plant without lending themselves to



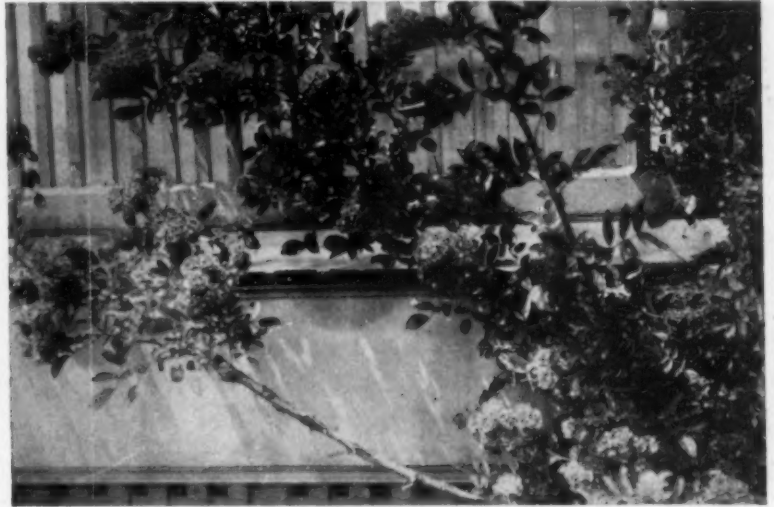
A strong-growing Manetti stock, cut ready for grafting



Too much old wood here; it should be cut back



Tying the graft rose in place on sturdy root stock



A Rambler that has not been properly cut back and the resulting scattered bloom. Old wood bears no flowers

florescence, being removed. This cutting will help the plants materially and will increase their Rose-clusters at flowering time. On every hand, during the summer, old plants can be seen with many blossoms, which extent of bloom could have been doubled, however, had the plants been properly attended to.

ROSE PESTS

There is probably no plant more often the victim of insect and other pests than the Rose. One ought not to begrudge the time for a daily inspection of the plants, that would protect them from their enemies. Look over and under the leaves for slugs and beetles, regularly and carefully, for if you neglect this you will rue your carelessness. A solution of hellebore, whale oil soap, decoction of tobacco stems, and such-like insecticides and fungicides, will ward off lots of trouble. Arsenate of lead (about one pound to ten gallons of water) is effective, but it has the disadvantage of whitening the leaves. A good force of water

is one of the best pest-preventatives. If the plants are regularly sprayed with a forced stream, very little poison or chemicals will be required. Spray under the leaves, along the stem—in fact, make a thorough job of it, and the pests will then find it a difficult matter to betray the hospitality of the Rose.

ROSES ON THEIR OWN ROOTS OR GRAFTED

Not only are Roses grown on their own roots, but they are sometimes grafted on a foster-stem of some other Rose, such as the strong-growing Manetti. Some say that Roses on their own roots are better, while the advocates of grafting are equally emphatic in declaring grafted Roses to be vastly superior. They will say that a Rose-plant not grafted has not the necessary vigorous constitution to withstand adverse conditions, etc. To this the other enthusiast will oppose such facts as the one that grafted stock will throw out suckers so fast that in spite of all that can be done the budded stock will
(Continued on page xiv.)



The grafted rose in place. For the small garden these are better



The Hybrid Perpetuals are known by their dull green, wrinkled foliage



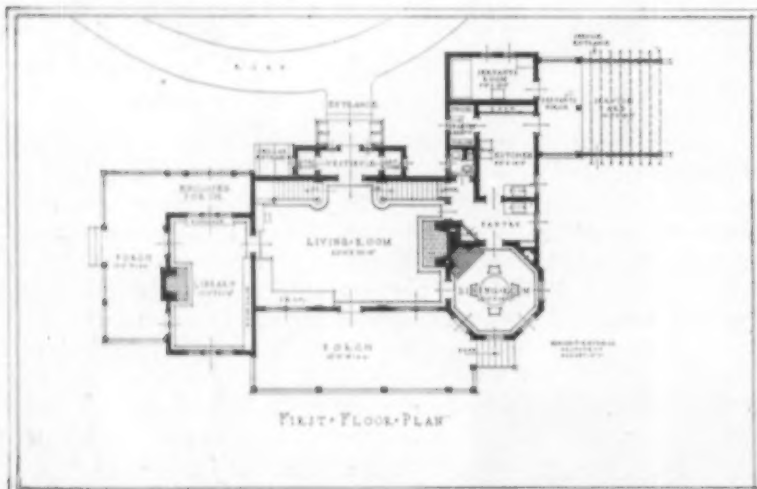
The shoot at the side springs from the root stock and should be removed



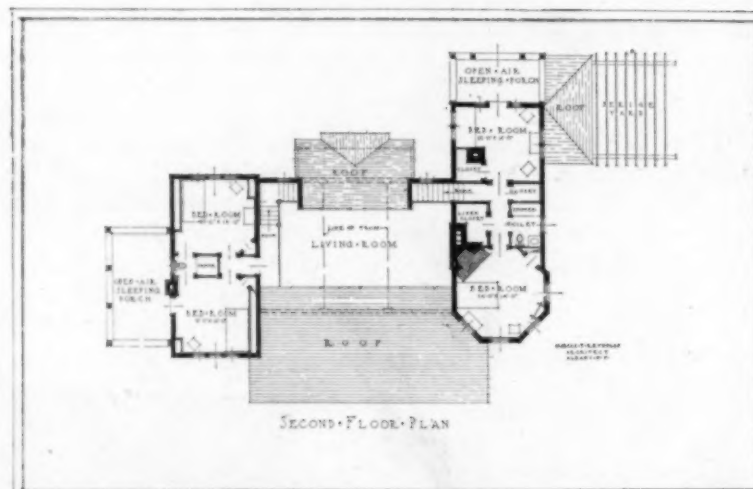
The Barnes summer home has been built with two large outdoor sleeping-rooms, one on the near-end



The entrance is at the rear opening into the living-room. At the left is the service porch and yard



A living-room, twenty by thirty feet in size, is the feature to which all else is subordinated



Three of the four bedrooms adjoin the sleeping-porches. The fourth is the octagon, with four windows in it

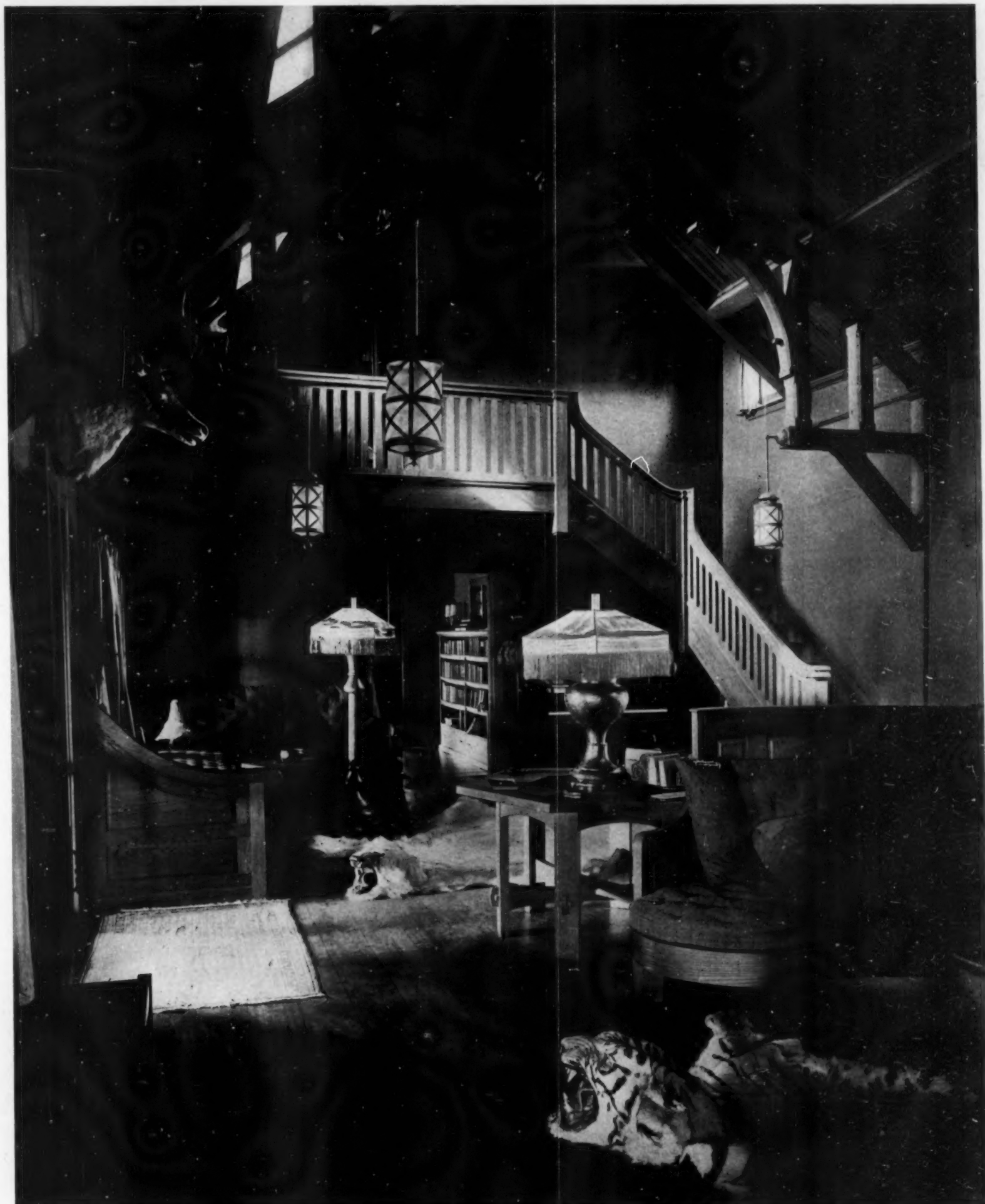


A great rough-textured brick fireplace, laid with broad white joints stands at one end of the living-room



The entrance door, with its projecting hood and flanking seats, opens into a vestibule coat-room

THE SUMMER HOME OF MR. WILLIAM BARNES, JR., ALBANY, N. Y.



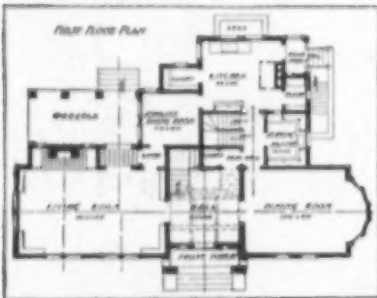
The Barnes living-room is a striking example of the architectural possibilities in a large room that opens up through the second story to the roof. Another stairway balances the one here visible



"Garden Corner" is built of stucco on a wood frame. The exterior woodwork is of cypress stained brown; the hinges are silver gray; the sash, sage green



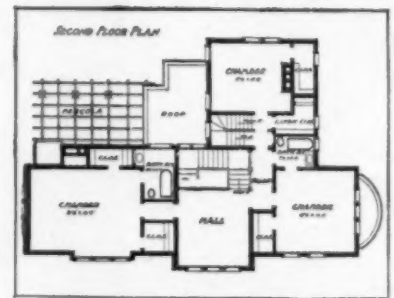
The only porch on the house is in the corner formed by the ell and sheltered from the sun by a vine-covered pergola motive, giving a view over the garden



The long axis across the living-room, hall and dining-room gives effective vistas along the 65 ft. length

THE HOME OF
MRS. S. A. COOLEY
GROSSE POINTE
DETROIT, MICHIGAN

Carleton Monroe Winslow, architect



The woodwork throughout the second floor is enameled white. There are two servants' rooms in the attic



The plot on which "Garden Corner" stands is 150 ft. wide and 125 ft. deep. The little tool house was designed for its place under the tree



The house has been completed only three years, but the garden has responded well to the care given it from the very start



The living-room is finished in a combination of cypress and Circassian walnut, stained alike. An arched inglenook is the main feature



The woodwork in the first-story hall is chestnut, stained brown, the wall covering between the panels being gold grass cloth

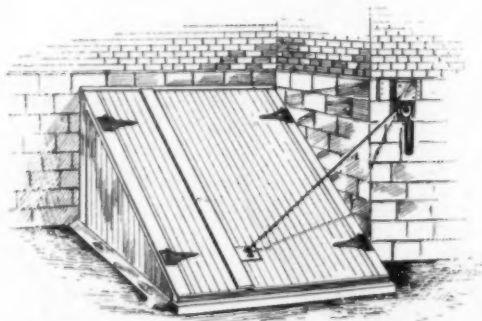
A Suggestion for Shade Rollers

WHEN buying new shades on rollers I always put in a number of additional tacks, as usually there are far too few put in by the makers. Use them especially at the ends. This saves the annoyance of having to re-tack the shade on the roller in case of the careless handling which children often give them.

C. K. F.

The Bulkhead Door

THE bulkhead door, an inclined door, usually leading into the cellar, is usually a nuisance in country houses. Half of it is too narrow and to open both halves is laborious, for it is heavy. Some five years thinking on the subject resulted, when a new door had to be made, in two improvements. The first was to make one part of the door wider than the other. By opening one-half the space was wide enough for a man with a pail. When



The two sections of the bulkhead door were made unequal in width, with a balance weight for the wider panel

more room was wanted the other half was opened. This was one immense advantage. But the wide "half" was heavy. Then we balanced that half as the illustration shows. A corner of the house happened to be next the door, so it was only necessary to nail a block of wood to the house (we might have nailed it to a post), put a staple into it from which was hung a pulley, one of the swivel type. A staple was driven into the wide leaf of the door and a cord and weight arranged as shown. For a weight get a window sash weight at the hardware store, though any kind of weight will answer. To find how heavy it should be, find with a spring balance how heavy the door is when half way open. For a cord use a soft braided cotton line, about half an inch in diameter. Be sure to get a pulley or block that has a galvanized sheave in it. Iron rusts the rope and makes it break rather quickly.

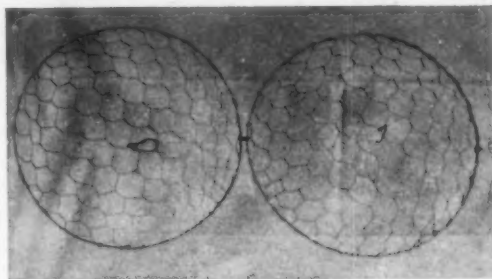
W. E. P.

The Care of Fern Balls

SO much interest has been expressed in the subject taken up in the last issue relating to the care and fertilizing of fern balls that the accompanying illustration of Mr. Joseph Elliott's method are shown.

Ingenious Devices

Labor-saving Schemes and Short Cuts in the House and in the Garden



Make a hemispherical wire basket for your fern ball to save bother from rotting strings

To get around the difficulty caused by the rotting of the string that bound the moss and fern roots together, a pair of hemispherical wire baskets were made and hinged together at one side with a wire loop. Into the hemispherical wire cage thus formed the fern ball is put and, needless to say, there was no further trouble in keeping the balls intact.

Fern balls are so often improperly nourished or entirely neglected that it is small wonder they do not make a better showing in most cases. The surprising thing is that they grow as well as they do. The best method of nourishing them is with liquid manure. A cheese-cloth bag



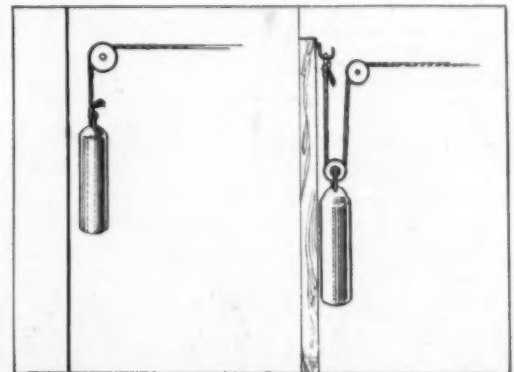
Suspend a cheese-cloth bag of manure in a pail of water, and in this allow the fern ball to soak up nourishment

is used for this purpose, filled with manure and allowed to soak in a pail of water as illustrated below. The fern ball is suspended in this liquid afterwards and allowed to soak several hours. When the ball has grown too large to put in the pail the liquid may be poured over it.

It is really useless to attempt to grow these fern balls without this liquid manure nourishment. They will not properly mature and will have to be renewed at frequent intervals. Mr. Elliott suggested also that when a fern ball is bought in the fall it is a good thing to bury it for a month before letting it start to grow in the house.

Halving the Pull of a Given Weight

SOMETIMES the weight used to close a door or a gate is too heavy, and it is not convenient to get one lighter. If you have a spare pulley that you can



To halve the pull of a weight merely insert an additional pulley as indicated

fasten to the top of the weight you can cut the *weight* in two by lengthening the cord and carrying it through the pulley fastened to the weight as shown in the illustration. The same weight is supposed to be used in both figures, but it will pull only half as hard in the second one as in the first.

W. E. P.

Store-Room Under the Porch

ON a small city lot where there are no out-buildings, and but little store-room in the basement, space for the garden implements, out-of-door games and the paraphernalia of two small boys was provided in the following manner: The space under the back porch was sided and floored with material from dry-goods boxes, and a door and two small windows made. Here was a dry clean space capable of holding many things. Under each of the porch steps a drawer was made, these arranged, of course, to open towards the inside of the enclosure, giving a safe shelter for the many small things that are easily lost. This arrangement kept both yard and cellar neat and orderly.

ALICE M. ASHTON.



Inside the House
Timely Suggestions and
Answers to Correspondents



The Editor will gladly answer queries pertaining to individual problems of interior decoration and furnishing. When an immediate reply is desired, please enclose a self-addressed stamped envelope

New Oval Frames

IMPORTERS are showing oval picture frames of gilt material, designed to appear as though suspended from the wall by a bow and strings of ribbon. The bow-and-ribbon effect is obtained by the modeled gilt.

Cedar Chests

THE newest things in cedar chests for the summer home are those constructed in settee form. For cottage use they lend themselves admirably to being placed in an entry hall and are doubly useful in this new form. Miniature chests are also made for storing feathers.

Basket Candelabra

SILVERSMITHS are exhibiting candelabra in several new forms. Among them are the four-armed table candelabra, each arm of which suspends a silver basket of the same pattern in which bon-bons are held. These are very beautiful for the small dining-table.

Wicker Bird-Cages

FASHIONS for birds seem to be keeping pace with fashions for their owners. The latest things shown are wicker cages for doves, parrots and other large domesticated birds where a fine-mesh cage is not necessary. These wicker cages are very attractive and comparatively inexpensive. They are modifications of the old magpie cages familiar in the illustrations to fairy-stories, where a magpie in such a cage is always to be found hanging outside the witches' doorway.

Making a Gold Screen

WE had a Japanese four-fold screen, with embroidered pheasants on a black ground on one side, and plain diaper-pattern on the other, after the fashion of all these cheap Japanese screens. As an experiment we procured sheets of Japanese gilt paper (such as one sees on packages of fire-crackers), and we cut them up carefully into squares four inches

each way. Laying the screen open flat on the floor (black side down), we spread a paste of starch (not very thick, and free from lumps) over the plain-patterned side, a section at a time, pressing each square lightly with a cloth. The squares must of necessity overlap, and therefore the edges of the squares already laid must be paste-covered, one at a time, so that succeeding squares will all be stuck down and no loose edges rising to catch and tear. As the paste should be very thin, it makes little difference whether or not it passes over the gilt surface of the laid squares. A damp cloth will remove it later. When all the panels are covered this way the effect will be that of a screen of squares of gold leaf, such as one sees in expensive shops. We have used our screen four years now and it is admired by everyone. K. G. C.

Papier-maché Flower Vases

PAPIER-MACHE milk jars, seven and a half inches high by three inches in diameter, are now being made and sold by nearly every grocer for five cents a piece, or less. Covered with shellac, they make excellent receptacles for holding cut flowers and a little ingenuity in painting, staining and stenciling them will turn



The conventionalized Iris pattern that was used in stenciling the living-room illustrated in detail on the next page. The actual width of the group is 8½ inches

them into very decorative adjuncts to the furnishings of the summer home, where there seem never enough vases of the right sort to hold the wild flowers, ferns and garden flowers one wishes to bring into the house.

Lavender Keeps Out Moths

I HAVE found, in putting things away for summer storage, that flat bags of lavender keep moths away as efficaciously as anything else I have ever tried. Moreover the lavender method has the advantage of fragranciness against the disagreeable odor of camphor and tar balls. M. J. C.

Staining Burlap Panels

WE have a five-room apartment, the dining-room of which has a wainscoting running up seven and a half feet. The woodwork is oak, stained black. Everything about the room is good except paneling of red burlap, which the previous tenant had put in the wainscoting. The landlord will not go to the expense of substituting a more harmonious color, and I am writing to ask if you can suggest any way of covering it that will not be too expensive or clumsy. We have a lease for only one year, so we do not wish to expend any more than necessary. L. C. W.

You will find that if you coat the offending red burlap with black wood-stain (Flemish oak), the result will be a blue effect so dark as to be almost black but not at all funereal in appearance. The same treatment can be applied to the bright green paneling that apartment landlords seem to enjoy inflicting upon their tenants.

Panels for a Child's Bookcase

IN our playroom our children have a case for their books in which there are four blank panels across the top. I got a cabinet-maker to remove the moldings and carefully place therein four colored pictures I cut from a twenty-five cent copy of Walter Crane's illustrations

to *Little Red Ridinghood*. The four colored panels were then varnished and the moldings replaced. The children are delighted with it, and as Walter Crane's colored drawings are to be had in these inexpensive books, it occurs to me that this will suggest another decorative use for them in nursery and playroom.

E. T.

Old-fashioned Wall Paper

THE wall paper in our house, which is an old Colonial one in excellent preservation, was until recently, in very good condition, the large hall having had very quaint old-fashioned patterned paper with little landscape medallions in gray for its design. This paper was a very old sort, and I am writing to ask if anything like the old-fashioned patterns may be obtained nowadays?

N. R.

One may obtain just the sort of paper you desire, at various prices up to \$2.50 a roll. At this latter price there may be had, from the firms whose address has been sent you, a lovely gray paper with greenish-gray medallions of pastoral scenes. Then there is a cheaper paper with mythological scenes in gray relief, and a lovely "Shepherdess" pattern in warmer grays. Indeed one will find many reproductions of old-time wall papers in the market to-day, and they are just the thing for the walls of Colonial rooms.

One Stenciled Pattern Throughout a Living-Room

THE hangings for the living-room here pictured were of rough linen in its natural pale brown tint, and domestic monk's cloth in the same color.

The conventionalized Iris-group was stenciled on these draperies in dark blue, the medium used being a dye that comes in large tubes and can be mixed with boiling water and kept from running by

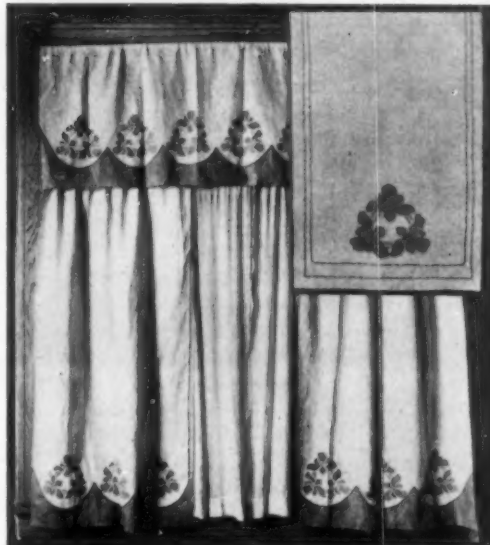


The portières were stenciled in dark blue upon ecru monk's cloth. Dark blue mercerized couching cord marks the center of each Iris and helps to form the border

a slight intermixture of mucilage. "Cadet" and "navy" blue were mixed to get the desired shade.

The broad windows in this room were curtained in plain cream-colored scrim; but the side curtains and valance were of linen in its natural color. The long side strips were made very full, while the valance above was made of a straight strip of the linen, 25 inches deep and 2 yards long.

Five inches above the lowest edge the Iris-figure was stenciled on the linen, a space of 2½ inches being left between the lower portions of each of the triangular figures. A deep border of solid blue was then painted on, so arranged as to fit in deep scallops between the flower-groups. To do this, a piece of stencil paper was cut in large scallops, 4½ inches



For the natural linen curtains a scalloped solid blue border was used. The smaller illustration is of the table scarf

deep and 11 inches wide, and these scallops were then laid over the Iris-groups, and all the material extending below the scallops, painted blue. In the same way, by pinning a straight strip of stencil paper an inch from the edge, a straight dark border was stenciled up the sides of the curtains.

The scalloped border and dark side borders were then outlined with dark blue mercerized couching cord.

On the couch-cover of ecru monk's cloth the stenciled figure was arranged as an "all over" design; the Iris-group being dotted at regular distances over the entire surface. A border was formed by making two rows of closely clustered flower-groups, with a solid band of dark blue painted along the edge. This solid border was four inches deep, except where the stenciled figures came; the scallops that were used in the curtains being here laid over each flower group, narrowing the solid border beneath.

This solid band was outlined by a dark blue mercerized cord, and the centers of each flower marked by two stitches of the



On the couch cover the stenciled pattern appears on monk's cloth with a solid blue border

couching cord to give them a bit more life.

On each of the portières the Iris-figure was arranged as on the couch cover; and the centers of these blossoms also marked by two stitches of the heavy cord. But the portières had no solid blue band painted on as a border; lines of the couching cord alone setting the border off from the rest of the curtain.

A table scarf was made of a strip of monk's cloth, with the Iris motif stenciled on each end. In this case the whole figure was outlined with the heavy blue cord, which also marked the hem at the sides and ends of the scarf.

Curtains for the built-in bookcases were also made of the monk's cloth, with the stenciled figure painted in a close border just above the hem. The couching cord marked the top of this hem, and ran up the inner side of each curtain.

HARRIET JOOR.

A Problem in Bedroom Furnishing

WE have just bought a cottage in the country on a quiet road half a mile from the village. I want to make the three sunny bed-chambers bright and attractive, and it has occurred to me that the English chintz styles, of which I have read, would be appropriate. The rooms are all very large, and we have a lot of old-fashioned mahogany furniture (four-posters, etc.), with which to furnish it. Will my suggestion be all right?

E. V. R.

If your rooms are large and cheerful and sunny you could make very attractive bed-chambers by painting or enameling the woodwork ivory white, tinting the ceiling to correspond, and papering the walls with one of the many wall papers now on the market to accompany chintz fabrics. We send you the addresses of dealers who make a specialty of such wall papers and chintz fabrics to match. These papers cost from fifty cents up per roll, and the chintz from fifty cents up per yard. However, the fabric is of good width. This season wall paper manufacturers are also showing delightfully designed papers of English make, patterned with quaint sprigs of bright old-fashioned flowers, unlike anything that has been on the market before. Possibly some of these papers would appeal to you. They should be used with monochrome curtains.

Garden Suggestions and Queries



Edited
By
Gardner
Teall

The Editor will be glad to answer subscribers' queries pertaining to individual problems connected with the garden and grounds. When a direct personal reply is desired, please enclose a self-addressed stamped envelope.

June's Reminder

WATCH the Currant-worms on Currants and Gooseberries, Rose-beetles on Roses, Grapes, Plum and Cherry trees.

Perilla, Dwarf Nasturtiums and Portulaca may be sown late in the month in half-shaded places to take the place of failing annuals.

Transplant Tomatoes, Celery and Peppers.

Sow for late crops beets, carrots, potatoes, and for succession radishes, sweet corn, beans and turnips.

Spray for garden pests—insects and blights (see spraying table on page 100 of *HOUSE AND GARDEN* for March, 1910).

June is the critical gardening time—you must weed and cultivate carefully and persistently for successful results.



If you have a pond or stream on your country place, planting it with water-lilies and other aquatic plants will be worth while.

Look out for cut-worms in your garden beds. Use Arsenate or Paris green on pigweed, peppergrass and mullein as "baits," distributed between the rows of plants at nightfall. Fresh "baits" are the most efficacious.

Privet hedges may be trimmed this month.

Plant Dahlias and Gladioli.

Begin to tie up tomato vines. This is a matter that ought not to be neglected.

Tender annuals planted after June first, will develop with wonderful rapidity.

Set out Cabbage and Cauliflower plants in rich soil. Well drained clay soil is best for cabbage.

When Small Fruits and Trees Bear

HOW long should it take the Blackberry, Currant, Gooseberry, Raspberry, Quince, Plum and Strawberry plants I set out last season to bear?

Blackberries, Currants, Gooseberries, Raspberries and Strawberries should yield fruit one year from setting, and bear good crops in from two to three. It will take the Quince two years, and the Plum three years from setting to bear.

Wax Plants

A WAX plant has just been given to me and I should be glad to know something about its growth and habits, and about the proper soil for potting.

This plant (*Hoya carnosa*) is a summer-blooming plant not difficult to cultivate. Let your new plant rest through the winter, in a temperature of about 50° if possible. In the spring give it plenty of sun and air. For potting-soil use loam, leaf-mold and lime-rubble or sand. The Wax Plant will attain considerable height under proper care, producing attractive sweet-scented clusters of star-shaped flowers of waxy textures. When the flowers have bloomed do not cut off the spurs as these bloom again.

The Balsam

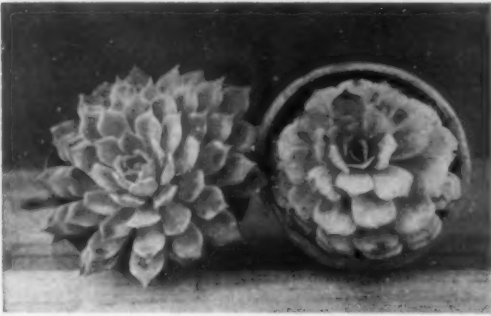
ONE of the loveliest of old-fashioned garden flowers is the Balsam (*Impatiens Balsamina*), often called Lady's Slipper, an annual that has suffered strange neglect, when one takes into account the beauty of its flowers and foliage. It thrives best in moist ground and will reach a height of eighteen inches or more. As it flowers from July to frost it should find favor in every garden. Balsams are excellent border plants, and may also be grown successfully in pots and in window-boxes.

Hen-and-Chickens

THE plant commonly called Hen-and-Chickens (*Sempervivum globiferum*), also is called Houseleek, is a hardy perennial, stemless, and rosette in appearance, with succulent leaves, cultivated for carpet-bedding, rockeries, and adapted to covering sandy waste spots. As carpet-bedders they are more thrifty than the more tender Cotyledon (known to the



The Balsam is one of the most satisfactory annuals for color, border and mass effects and for small gardens.



Hen-and-Chickens (*Sempervivum globiferum*) is an interesting rosette-formed plant useful for carpet-bedding

the Houseleek is the *S. tectorum*, the little plant seen growing on the roofs of so many of the cottages in Europe. The multitude of young plants of *S. globiferum* that spring from the parent plant are attached thereto by slender threads. One often sees earth filled kegs pierced with numerous holes in which *Sempervivum* plants are rooted, forming a foliage covering as a garden ornament.

Edgings for Garden Walks

ONE may have many varieties of edgings for the garden walks which about this time he will be planning, but there is not a better one to be recommended than a strip of turf, if carefully laid and well kept up. Sods of good color, smoothness, regularity and durability are most pleasing, and though somewhat formal, present an appearance unsurpassed in neatness.

Grass edging, moreover, furnishes the best ground-tint for setting off the colors of flowers. An edging of this sort should invariably be flat and of uniform height above the surface of the walk it borders. The grass edging should not be more than three-fourths of an inch above it on the walk side but about two inches high on the side of any flower or shrubbery bed it edges, to allow for the resistance of soil washing against the sod.

The grass edging must not be too narrow or it will crumble away.

W. R. GILBERT.

Plants Suitable For Sunny Rock Gardens

WILL you kindly tell me what bright-colored plants would prove suited to a little rock-garden I am planting for a sunny spot in my garden. Will things grow there?

Sunny spots are all right, for the rock-work itself forms sufficient shade for the plants that require it. The following plants are good for sunny locations: *Aubrietia*, *Alyssum saxatile*, *Arabis albida*, *Enothera caespitosa*, *Oxalis corniculata atropurpurea*, *Saxifrage*, *Sedum*, *Nepeta glechoma*, *Linaria cymbalaria*, *Ramondia pyrenaica*, *Primula*, *Campanula pusilla*, *Veronica gentianoides*, *Helianthemum Canadense*, and *Hypericum Hookerianum*.

A Hedge of Vines

WE have an old hedge, four feet high, that long ago died out leaving nothing but a brush of branches and twigs. Could we not cover it this season and next with some sort of vine that would grow rapidly and be attractive?

Try *Clematis paniculata*. The accompanying illustration will indicate the beauty of a growth of this vine, which, in its second year transformed the dead hedge row into a wall of flowers and foliage.

Replenishing the Aquarium

THIS is a season for replenishing aquarium plants, which are so necessary to the life of goldfish and other inhabitants of either the globe or tank aquarium. These plants supply oxygen so the fish may thrive, and the poisonous carbonic gases the fish exhale are taken up by the plants. Many persons have wondered why the fish in their aquaria have seemed to die off without reason; probably they had not thought of introducing aquatic plants, or had regarded such as merely ornamental attributes. The following are some of the plants that may be recommended for aquarium purposes: *Cambomba* (*Cabomba caroliniana*), also known as Fanwort; *Water Milfoil* (*Myriophyllum spicatum*); *Sagittaria* (*Sagittaria natans*); *Ribbon-grass* (*Valisneria spiralis*); *Arrow-head* (*Sagittaria sagittifolia*); *Willow-moss* (*Fontinalis antipyretica*); *Potamogeton* (*Potamogeton perfoliatus*); *Salvinia* (*Salvinia natans*); *Water Starwort* (*Callitriche verna*); *Water Cress* (*Nasturtium officinale*), and *Hornwort* (*Ceratophyllum demersum*).

Try some of these in your aquarium and you will be surprised at the change they will make in the health of your fish.



Clematis (*Clematis paniculata*) will form an attractive covering for training over an old hedge

Weeds in Garden Walks

THE walks in our garden are made unsightly by the weeds which spring up there every season. How can these be kept down?

If you cannot have your garden walks made over (and that really is what should be done, by sinking a layer of stone filled in with cinders or coal ashes as a foundation), make a hot brine of salt and water in proportions of one pound of salt to one gallon of water, and apply from a watering pot. Another method is to apply a solution of one ounce of carbolic acid to every gallon of water, and sprinkle as you do by the hot brine method. This mixture is efficacious for removing ant-hills.



A mass of tall growing perennials against a growth of shrubbery may be bordered effectively by a strip of raised turf a foot wide



Insect Helpers

BY GRACE TABOR

WE are so constantly impressed by warnings, displayed everywhere, against malign little monsters, that our every instinct becomes destructive when our thoughts are turned to those animals which, according to a very great man's very profound classification, are the highest of the six divisions which compose the animal sub-kingdom known to science as *Annulosa*—the division grouped under the head *Insecta*.

And so we are in danger of never knowing about the benign little allies which this group contains—and in still graver danger, through our ignorance, of destroying them, along with "varmints" generally. Such destruction is very much what the destruction of horses and cattle and sheep and dogs would be, if we proceeded to slaughter all animals because tigers and wolves and panthers and other savage kinds were inimical to the life and comfort of man.

Quite as the faithful sheep dog defends a flock against invading foes does the dainty lady-bug defend certain other of our possessions against marauding enemies—and though in the interests of truth and honesty I suppose we must confess that she does it unconsciously, she nevertheless does it very well, and as nothing else can do it.

And quite as the patient horse fetches and carries for man from morning until night, the active bee fetches and carries also, performing a service so great and so important that without it only a comparatively small percentage of man's fruit foods would ever be produced at all. She serves while serving her hive, to be sure—but we are none the less dependent on her.

These two small creatures—the lady-bug and the bee—are examples of the dual service which many of their great group render to the lords of creation—without the said "lords," by the way, having anything to do about it—and as such examples let us see just what it is that each does.

OUR FRIEND THE LADY-BUG

The lady-bug, in the first place, is not a bug at all, but a beetle—that is, an insect of the sheath-winged order. These have two pairs of wings, the outer always hard

and armor-like, and closing down over the thin and folded, membranous under pair. (True bugs do not have these sheath wings but only gauzy ones; some indeed are devoid of wings altogether and can only crawl or run about.) And like most beetles the lady-bug is predaceous—is in other words, a preying, carnivorous little savage who devours with rapacious appetite other insects, her preference for those of the scale class being especially notable. This taste in food therefore is the reason of her value to man; in feeding herself and depositing her eggs where the newly hatched larvæ will find their favorite dish ready and waiting to be eaten, she brings destruction to unbelievable hordes.

THE SERVICE RENDERED BY THE BEE

The bee belongs to another class entirely—a class of thin-winged insects which have mouth parts made both to bite and to suck. But bees are far too well behaved to bite, though some have been accused of it. Bees are nectar-drinkers—and it is in sipping and seeking nectar that a bee accumulates on her legs and her body the "flower dust" which marks her as a long summer day traveler.

This flower dust is the real gold of the flower kingdom—the magic, life-laden pollen grains, one of the most precious of the unknowable mysteries of Nature's laboratory. On the bee's body they travel from one flower into another and from the flowers of one plant into those of another, thus accomplishing that miracle of cross pollination which Nature, for some deep reason, demands.

THE SIZE OF THE INSECT WORLD

Insects help us, therefore, in two ways: directly, by destroying our fruit enemies, and indirectly by being the instruments of this curious exaction termed cross pollination or fertilization. And there are many kinds of insects working in both classes—so many that it is hardly possible to even hint at their numbers or their wonderful life stories here.

For experts place the total number of different kinds of insects in the world at from two to ten million; and of this number only about four hundred thousand have so far been examined, described and named. Four-fifths of all the kinds of animals are insects—and some *single families* contain more species than a person of normal vision can see stars on a clear night. It is believed, too, that the greater proportion of animal matter on the globe's land surface exists in the form of insects—in other words, that if all the insects on the land could be piled in one enormous heap, with all the rest of the animal kingdom, man included, piled in another, the mountain of insects would be larger than the mountain of animals and men!

HOW TO KNOW FRIEND OR FOE

Out of these legions it would be difficult to select all of those who are indeed

friends to the human race, even if the entire insect world were known. But with anywhere from three-fourths to twenty-four-twenty-fifths of it, according to the correctness of the estimates, still in the darkness of the unknown, it is of course impossible. And it is almost impossible to devise any rule which shall help the layman in determining which of the known insects are which—though one does suggest itself as the food taste and habits of the various kinds are considered.

It is based on the fact that insects are seldom or never truly omnivorous. They either eat meat or they eat vegetables—or suck the juices from one or the other—but the same insect does not indulge in both. The meat eaters, therefore, being the warrior-hunters or beasts of prey of the insect world, are man's friends; the vegetarians his everlasting foes. This seems likely to be a fair standard of judgment for all those who aid man directly, and from it one formulates a plan of action, limited to be sure, but pretty certain to be all right as far as it goes. So the rule is never to destroy any kind of insect creature that is ever caught in the act of destroying another.

Compassion must be leashed with the strong reins of indifference at the writhings of a Cut-worm in the cruel mandibles of a Ground-beetle, or the frantic terror and agonizing struggles of a baby pear-tree *Psylla* when the "veritable dragon," which is the larvæ of the Lace-leaf fly, seizes it between its pair of great sucking tubes preparatory to drawing the life fluids from its body. These things must not be discouraged, no matter how unpleasant they are to witness or to think of—else the Cut-worm will lay low his harvest and the *Psylla* will pump the life from the defenseless trees.

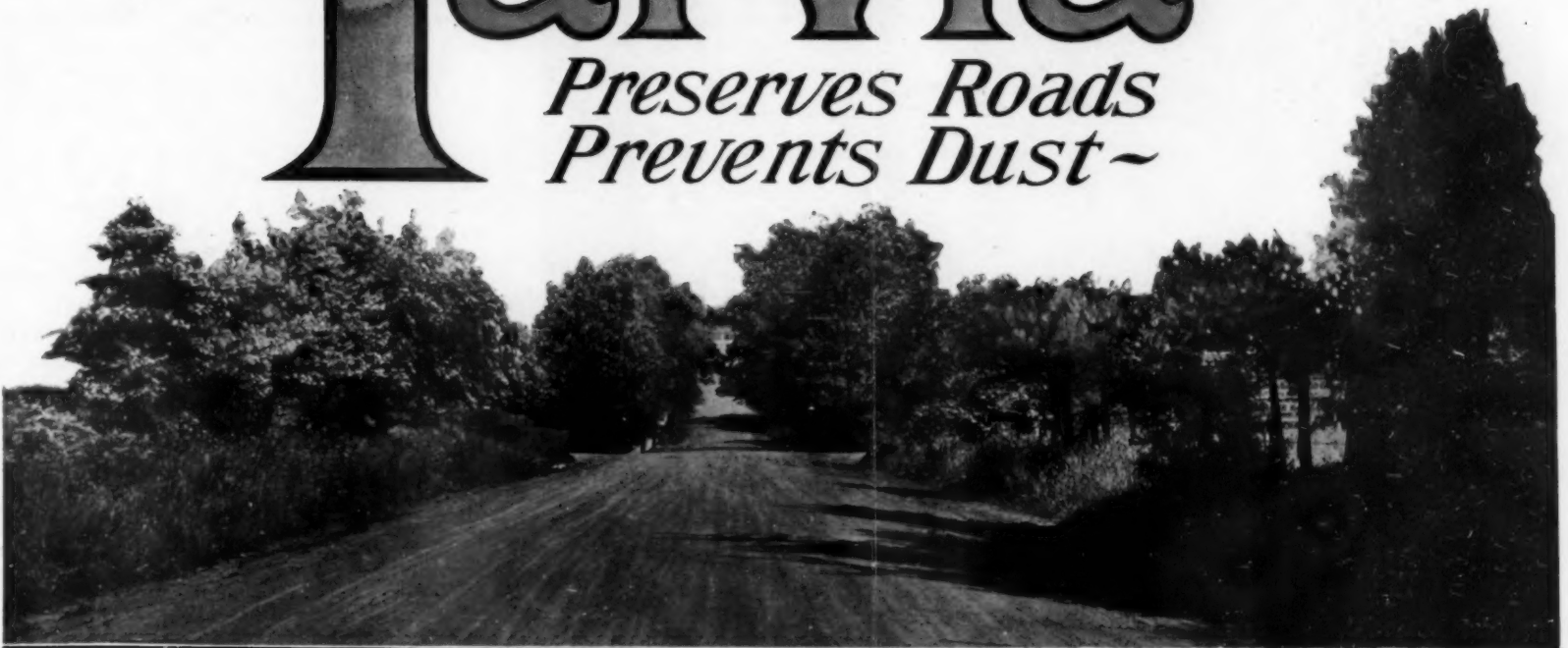
Bees are much pleasanter creatures, to all outward appearances at least—they behave atrociously to their own kind—and, aiding indirectly as they do, they are not of course to be measured by any such distressing and murderous test; in fact, bees we already know as friends.

SPRAY WHEN THE BLOSSOM PETALS FALL

No spraying or poisoning should ever be done when bees are at work, and nothing that will injure them should be used on fruit or ornamental flowers at any time when they are in evidence. The regulation time for spraying will not interfere with "bee pasturage" if strictly adhered to, as the bees are seeking nectar before the flower has been fertilized, consequently before the petals drop. The falling of the petals is the signal for the first application of all those sprays which aim at the destruction of worms—the larval forms of numerous creatures which are deposited, in the egg, at some point within the flower and thus work from the "blow" end toward the center of the fruit—and these sprays should never be used until this signal is observed.

Tarvia

*Preserves Roads
Prevents Dust~*



City Ave., Overbrook, Philadelphia, Pa., constructed with Tarvia X.

Improving Macadam Roads

Macadam roads won't stand modern automobile traffic. Every road builder and engineer knows this. The wear and tear of this traffic is far too great for the resisting capacity of the top surface. It is rapidly pulverized, dust is created, and at the end of a single season the road is often a melancholy ruin.

To give macadam the additional binder which it so plainly needs to enable it to resist modern traffic, we offer Tarvia—a specially prepared coal tar preparation of the right grade, consistency and refinement for road purposes. Most of the road engineers throughout the country have used it with success. The Borough of Brooklyn, Greater New York, for instance, has just placed an order for 500,000 gallons.

A tarviated road is durable, smooth, dustless and thoroughly waterproof.

Tarvia is made in three consistencies, A, B and X, to suit varying conditions of road surface.

The cost of Tarvia applications varies with the thoroughness of the work, but in most cases it is more than saved by the reduction in maintenance expenses. It is frequently cheaper to maintain a dustless road with Tarvia than a dusty one without it.

Tarvia is not an experiment, but is in regular use and has been adopted as standard in many localities. It is the only road preservative which has passed the experimental period.

Illustrated booklet—"Good Roads—How to Build, Preserve and Make Dustless"—mailed free to anyone interested on application to nearest office.

BARRETT MANUFACTURING COMPANY

New York
Chicago
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Cincinnati

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Pittsburg
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New Orleans
Minneapolis
London, England

"Daffodils, that come before the Swallow dares"



FROM NOW UNTIL

July 1st, Not Later

There is no more useful garden material than what are known as Dutch Bulbs, Hyacinths, Tulips, Narcissi, Crocus, etc. They give for a small outlay of time and money an abundance of flowers in the house from December until April, and in the garden almost before the snow is off the ground in the spring until the middle of May. These Bulbs are grown almost exclusively in Holland, and in enormous quantities, where they are sold at very low prices. Usually they pass through the hands of two dealers, and more than double in price before reaching the retail buyer in America.

By ordering from us now instead of waiting until fall, you save from 20 to 40 per cent in cost, get a superior quality of Bulbs not to be obtained at any price in this country, and have a much larger list of varieties to select from. Our orders are selected and packed in Holland, and are shipped to our customers in original packages immediately upon their arrival from Holland, perfectly fresh and in the best possible condition.

If you wish to take advantage of our very low prices, we must have your order not later than July 1st, as we import Bulbs to order only. They need not be paid for until after delivery, or taken if not of a satisfactory quality. (References required from new customers.)

Our import price-list, the most comprehensive catalogue of Bulbs published, is now ready and may be had for the asking.

| A Few of the Prices | | |
|-----------------------------------------------------------------|---------|---------|
| | Per 100 | Per 500 |
| Fine Mixed Hyacinths..... | \$3.00 | \$14.00 |
| Fine Mixed Tulips..... | .80 | 3.50 |
| Narcissus Poeticus..... | .70 | 3.00 |
| Double Daffodils..... | 1.75 | 8.00 |
| Narcissus Bicolor Empress..... | 2.50 | 11.50 |
| " Emperor..... | 2.75 | 12.00 |
| " Golden Spar..... | 2.25 | 10.00 |
| Narcissus, Mrs. Walter T. Ware, splendid free flowering..... | 2.50 | 10.00 |
| Spanish Iris, splendid mixture..... | .45 | 1.75 |

ELLIOTT NURSERY CO., Pittsburgh

Furnishing the Camp or Summer Home

(Continued from page 231)

Tall wooden candlesticks, the size of piano lamps, can be bought at arts and crafts shops, fitted with large candles, and are especially useful.

While a fireplace is almost always used for heating a camp, a small cook stove placed in the kitchen that adjoins the living-room, or occasionally in a separate building, serves for preparing meals; in this way the living- and sleeping-rooms are kept free from the odors of cooking.

The successful modern camp carries out in its interior furnishings as well as in its exterior the idea of harmony with nature. Everything is primitive in construction, and comfort is gained by convenient fittings and well designed furniture that is roughly made, with no suggestion of luxury. In getting away from towns to the woods or the seashore, every reminder of the complexity of modern life is left behind, and within the well planned camp as well as without, there is a refreshing simplicity.

The Practical Side of Rose Growing

(Continued from page 233)

be killed by them. There is much to say on both sides, but one may safely advise budded stock for the small Rose-bed. On such plants the amateur grower will have few enough plants to enable him to keep them all in order, and the suckers cut off. Putting the budded part of the plant a couple of inches below ground will help to prevent suckering.

BLOOMING SEASON

Hybrid Perpetuals do not bloom through the summer. They produce a blaze of color through June, and then later in the season a few scattering flowers. With Hybrid Teas the florescence is more constant. They bloom heavily in June, and again heavily in the fall, until cut down by the frost. The blossoms of Roses should be cut off as soon as they incline to withering.

THE CARE OF ROSES

The Rose-bed will probably need a manurial mulch in the summer, as this aids the soil to retain top moisture.

Protect your Roses in winter with a covering of leaves. There is almost nothing superior to this, in my experience. It is not absolutely necessary for the Hybrid Perpetuals, as the earth, mounded well up about them, will nearly always, except in extreme climates, protect them sufficiently. On the other hand, the Hybrid Teas need more careful protection. The following Roses are, in my opinion, worth the consideration of every flower grower:

HYBRID TEAS

Killarney Pink; Kaiserin Augusta Victoria; Caroline Testout; La France; President Carnot, and A. Rivoire.



WM. CLARK, ARCHITECT, GRAND RAPIDS.

Wood-preserving oils
waterproof the shingles
and carry the color properly.

Dexter Brothers English Shingle Stains

are made of pure ground English colors, mixed with finest linseed and other wood-preserving oils—the best shingle preservatives known. That's why they're water-proof—why they prolong the life of your shingles—why the colors last.

Let us help you with your color scheme. Write for booklet, and miniature shingles, showing colors—TO-DAY. Examine them carefully right in your home. Then match them against the natural setting of your house, one by one, until you are pleased.

DEXTER BROTHERS CO., 115 Broad St., Boston; 1133 Broadway, N.Y.

Makers of Petrifax Cement Coating for the outside walls of plaster, concrete or cement houses.

AGENTS—H. M. Hooker Co., Chicago; John D. S. Fotts, 218 Race St., Phila.; F. H. McDonald, Grand Rapids; F. T. Crowe & Co., Seattle, Spokane, Tacoma, Wash. and Portland, Ore.; M. D. Francis, Atlanta, Ga.; Carolina Portland Cement Co., Birmingham and Montgomery, Ala.; Jacksonville, Fla., Charleston, S.C., New Orleans, La.; F. S. Combs, Halifax, N.S. AND DEALERS.



Use our 22 miniature shingles in deciding on color.

HYBRID PERPETUALS

Pink:—Suzanne Rodocanachi; Gabriel Luizet; Paul Neyron; Her Majesty; Baroness Rothschild, and Crimson Red. Crimson:—Ulrich Brunner; Fisher Holmes; General Jacqueminot; Duke of Fife; Captain Hayward, and Prince Arthur. White:—Frau Karl Druschki; Mabel Morrison; Margaret Dickson, and White Baroness.

There is nothing more striking than a mass of perfect Rose blooms, the memory of which carries from season to season through the periods when the garden is all but bereft of any flowers.

Southern Garden Operations for June

BY A. B. MCKAY

Professor of Horticulture, Agricultural College, Mississippi.

NO line of agricultural endeavor yields larger returns for the time and means expended than does that devoted to garden making. If this be true in northern latitudes where, because of long winters, garden operations must be suspended for a considerable part of the year, it is equally true that in southern latitudes with milder winters, longer but not hotter summers, and with spring and fall coming and going gradually, garden work may and should continue the whole year round.

While June gives us a continual feast of good things from the garden, a greater variety in fact than any other month of the year, there is no time when any plot of ground needs to be idle. Combinations in succession and in rotation may be made almost without limit, something planted, something gathered for the table directly from the open ground every day. This is especially true as we approach the Gulf region.

With the passing of strawberries and dewberries in late May and early June, raspberries and blackberries are at mid-harvest. These come along with the first plums, peaches and grapes, helping to swell the list of fruits.

With the advent of June such early vegetables as English peas, radishes and lettuce are still in season. Cabbage, onions, beets, snap beans, tomatoes and Irish potatoes are at their best throughout the entire month.

During the latter half of June, cucumbers, melons, okra, peppers and egg-plants are fruiting nicely, and new plantings are made for later harvests. Quite a number of other fruits and vegetables not named above are now in season.

Lest the reader gets the impression that this never-ending supply of fruits and vegetables comes to the Southern gardener with but little effort on his part beyond that of planting and gathering, permit me to emphasize the fact that diligence and eternal vigilance are exacted as the price he must pay for any considerable degree of success.



NABISCO

SUGAR WAFERS

Serve NABISCO
with berries. The delicate
fruit flavor and the sweet,
creamy centers of the wafers
form a combination simply irresistible.

In ten cent tins

Also in twenty-five cent tins

NATIONAL BISCUIT COMPANY



The Owner of this Attractive House Enjoys His Windows

They're *all* casements hinged to swing *out*—light in winter and catching *all* the breezes in summer.

They're equipped with our famous Hold-fast Adjusters to operate and lock easily with one hand without disturbing screens, storm sash, curtains or Venetian blinds.

Our free hand-book tells you all about up-to-date casements and our remarkable casement devices.

Write *to-day* to the

CASEMENT HARDWARE COMPANY

154 Washington Street

Chicago

The Garden for the Temporary Home

(Continued from page 215.)

It combines effectively with the Canna, Caladium and the Salvia.


For cut flowers there is no more effective plant than the Gladiolus, and it has the advantage of being one of the cheapest and most easily grown. When through blooming the Gladiolus bulbs may be taken up and stored for another season. The newer Childsi varieties show immense spikes of bloom in really wonderful colors, and their price is so low as to bring them within the reach of everybody. They may be planted directly in the open ground any time after the middle of May in the north, and all the culture they will need is that which will grow a good hill of corn. Where room is at a premium both Dahlias and Gladioli may be grown among the vegetables in the garden.

Montbretias are also extremely satisfactory for table flowers, where a certain grace and delicacy are valued. They closely resemble the Gladiolus in form. Their color, however, is quite inferior to that of the Gladiolus, being found in shades of orange, lemon and red only, but their freedom of bloom, and the rapidity with which they increase make them one of the most desirable summer bloomers. Their culture is the same as that given Gladioli.

In shady corners one may grow the beautiful tuberous Begonias, and there is really nothing in its class which quite equals these plants. A bed of them, combined with the new double Begonia, Vernon, in white, in crimson and in pink, makes a bed to rejoice in, and when the season has waned the tubers may be taken up and stored away for another season's use.

But if the temporary home does not afford opportunity for flower beds in the open ground, even for so much as a narrow border along a foundation wall or rear fence, even then the idea of a garden need not be abandoned. There are always windows, and usually a porch, or balcony, or, failing these last, a back staircase, the outer edge of which may be utilized for attaching boxes of earth in which any amount of bright flowers and trailing vines may be grown. There is really no more forlorn architectural feature than an outside staircase in its original bareness; but given a love of flowers, a little ingenuity and handiness with saw and hammer, and the unsightly steps may be transformed into a most attractive passage to higher realms of living.

Shallow boxes attached to the outside of the steps by brackets and filled with trailing plants, not climbers, are just the thing for the outside of the house, and bright Geraniums, Candytuft, Ageratum, Snapdragon, Verbenas, Petunias, Sweet Alyssum and the like may be planted therein. One or two climbers—the Kudzu vine, for instance—may be



**TILES
ON THE
PORCH
FLOOR**

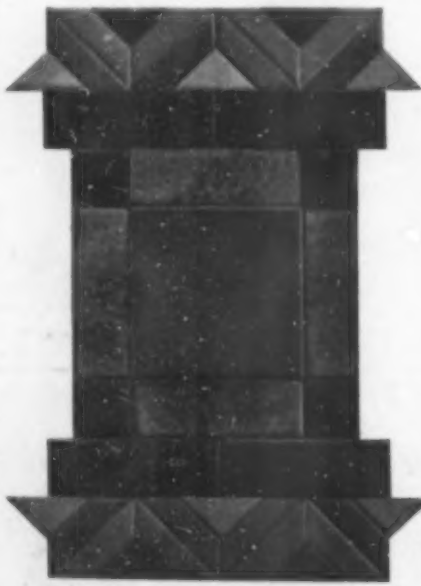
Do not build until you have read this book

“Tiles on the Porch Floor” is the name of a book which everyone who is about to build or rebuild should read carefully before deciding upon the material for the porch floor or the vestibule.

The reasons for using tiles are so imperative, and the expense is so much less than you think, that it will be worth your while to write today for this book, which will be sent you free.

Other important books for the home builder: “Tile for the Bathroom,” “Tiles for Fireplaces,” “Tiles for the Kitchen and Laundry” also free.

THE ASSOCIATED TILE MANUFACTURERS, Room 2 Reeves Bldg., BEAVER FALLS, PA.



ROOKWOOD FAIENCE TILE

In stock sizes and varied colors arranged in geometric design for border treatment in connection with plain tiles.

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THISTLE - INE

The Great Weed Destroyer

Positively Kills

**Poison Ivy, Sumac, Canada Thistles,
Burdock, Wild Morning Glory, and
All Noxious Weeds.**

Mr. E. Herman of York, Pa., Requesting advice from Mr. F. Rockefeller, received the following:

Cleveland, Ohio, January 8th, 1908

Mr. E. Herman,
York, Penn.,

Dear Sir:

Replying to your letter of the 14th instant, I have used a great deal of Thistle-ine. I dissolve it and use it according to directions on the can. I use a syringe and after pulling up a Canada thistle, partially fill the hole with the liquid, or spray the liquid over the thistle. I have killed thousands of them and have never had any trouble, and have repeatedly examined them some time after spraying with the liquid. I have never yet found a live Canada thistle after being treated in this way. I cannot understand why you should have any trouble. I do not believe I have ever made application more than once to the same thistle.

Yours very truly,

F. ROCKEFELLER

Manufactured By

The Lindgren Chemical Co.
GRAND RAPIDS, MICH.

6a Can sufficient to cover 5000 sq. ft. \$2.00



THE magnificent country estate of the late George Crocker is now for sale. "Darlington" is situated in the charming hill country of Northern New Jersey, comprises about eleven hundred acres and offers a rare combination of mountain, wood and stream, with broad expanse of fertile field and artistic residential park. On the north and east lies the well known Havemeyer Estate; beyond it, the village of Suffern, and a little farther on, Tuxedo. Good roads radiate in all directions, and the property is easily accessible by motor or by the Erie Main Line (Ramsey station, 3 miles; Suffern, 5 miles).

While nature has been very lavish here, the late owner spared neither expense nor time in improving and beautifying the surroundings, crowning the whole by the erection of one of the most noteworthy private residences in America. The residence is modeled largely after a famous English manor house of the Elizabethan period, and was completed in 1908. The material is Harvard brick with trimmings of Indiana limestone. It stands on a lofty ridge overlooking a large part of the estate and commands an outlook for miles in all directions, including the picturesque Ramapo valley and mountains.

THE interiors are remarkable for beauty and splendid proportions. The richly carved woodwork is chiefly of English oak, Circassian walnut and California redwood. Caen stone and marbles are also used in profusion, and decorations are the work of artists of high repute. The Entrance Hall with its monumental, open staircase is a fitting introduction to the stately interior, but the most impressive feature of the entire house is the magnificent Great Hall, two stories in height with oak-carved gallery and walls of Caen stone. The fittings of this great room are unusually striking and suitable, including a large built-in pipe organ, extraordinary rugs, hangings and furniture. Here and in other rooms are numberless art treasures in bronze, silver, porcelain, wood, ivory and needlework. There are paintings by great masters, tapestries and embroideries with histories and of great value. There is a remarkable collection of Chinese porcelains, some of which are displayed in electrically lighted, built-in cabinets. Throughout the house are many pieces of genuine antique furniture, as well as costly reproductions.

Grouped about the Great Hall are Dining Room, Breakfast Room, Library, Drawing Room, Office, Etc., each superb in appointments and decorations.

On the second floor, surrounding the gallery that overlooks the Great Hall, are Master's and guest chambers, generally furnished and decorated in perfect English style and each with large bathroom connection.

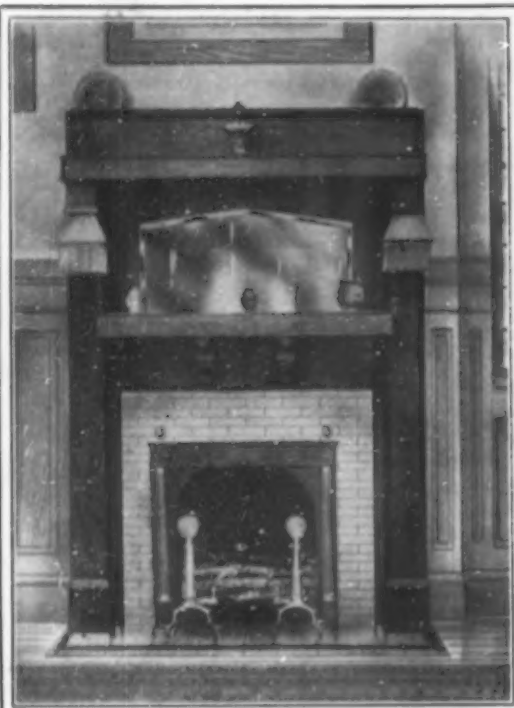
Above these are more and equally attractive guest chambers and other rooms. An electric elevator supplies access to all floors. The construction throughout is practically fireproof.

THE grounds about the mansion are spacious and highly ornate. Illustrations give but faint suggestion of the beautiful terrace front with its grassy slopes, broad stone stairways leading to the mirror pool, or of the extensive vine covered pergolas and pavilions, and the no less beautiful entrance front about which are grouped a wealth of evergreens, box trees, Japanese maples, flowering plants and shrubs. On this front of the house and on the nearby wooded slopes and drives are many thousands of rhododendrons. Beyond the lawns are the extensive formal gardens with large fountain pool, then the greenhouses of extraordinary size and completeness, filled with choice flowers and rare fruiting vines and trees. An abundance of pure water from an artificial mountain lake (a part of the estate) has been piped to every desirable part of the grounds and into every building, with ample pressure and equipment for fire protection. The lake is a well stocked trout preserve. In addition to the residence and greenhouses are the following buildings, all in good condition: Old residence and greenhouses, gardener's cottage, superintendent's cottage, carpenter's cottage, garage, assistant gardener's cottage, four double houses for employes, dairy cottage, lodge house, two small houses on mountain lands, chicken house, ice houses, coach, cow and hay barns, silo and grist mill, bull barn, watchman's cottage, blacksmith shop, carpenter shop, granary, laundry and water works.

Included in this offering is a choice herd of about seventy head of Jersey cattle, carriages, horses, chickens, a complete equipment of up-to-date implements, tools, stone crusher, etc., as well as the entire contents of the mansion and outbuildings, with minor reservations.

Ample facilities will be afforded for conveyance between the railroad station and the estate on due notice.

For further information, apply to E. F. Carpenter, Agent, Ramsey, New Jersey, or to the Executors of the Estate of George Crocker, 60 Wall St., New York City.



This quaint wood mantel with hanging electric lamps on either side the shelf would give a charm to the living room or library. You can get appropriate

WOOD MANTELS

for every room—made in any hardwood you desire—in any architectural style—including correct reproductions of old Colonial mantels as well as the modern Mission or Craftsman effects. In price, wood mantels range from the severely simple and inexpensive to richly carved, elaborate and costly.

“Why Wood Mantels”?

a beautifully illustrated booklet, will be sent on request to any one thinking of building, decorating or remodeling. Address

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ROOM 1225 STATE LIFE BUILDING
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Stanley's Ball-Bearing Hinges

Nothing equals them for hanging doors either in

*Big Public Buildings or
Private Dwellings*

Two will frequently take the place of three ordinary hinges, and their action is noiseless and perfect. Made in Wrought Bronze and Steel.

THE STANLEY WORKS

Myrtle Street, New Britain, Conn.
New York Office: 79 Chambers Street

used in the top boxes and made to furnish a screen over the head of the staircase, or these may be planted in the side boxes and brought across under the steps and trained up the side of the house.

The platform at the top of stairs or steps affords a place for porch-boxes, which may rest on the top of railings, and may contain plants and trailers galore. Every window may have its flower-boxes, the plants therein suited to the different exposures, for there is no point of the compass for which some delightful thing in the way of plant or vine may not be found especially adapted to it, from ferns for a north window to the vivid Geraniums at the south or west.

The care of plants in boxes is even more simple than that of the same plants growing in the open ground, as the conditions are more under control. The only serious consideration, once the plants are set in boxes of good soil, is to keep them well watered, and anyone loving flowers sufficiently to construct places for them to grow will usually care for them, once they have become established. In a sunny, windy situation the boxes will, probably, require watering twice a day, in less exposed positions one good watering a day will usually be sufficient, but the boxes should never be allowed to dry out.

Where animal manure for fertilizing the plants is unattainable, resource may be had to bone meal and other commercial fertilizers—a generous handful to be added to each good-sized box. But the dweller in the city can obtain all sorts of plant-food at the local florist with directions as to the proper proportion to use.

Plants in boxes require to be kept in bounds more closely than plants grown in the open ground, or they will cover more space than desired, and present a straggly, unkempt appearance, so the scissors should be resorted to frequently.

The Farmhouse Reclaimed

Part I

(Continued from page 218)

the paths intersect circles are developed, each with a fruit-tree as a center.

A few miles away where two roads fork is a farmstead one cannot help remarking as an example of its type, though it hardly belongs to this series. It has been owned in one family continuously; the condition of the woodwork, the massed evergreens and the great box-trees tell the story; the lawn is as fine and close as I have ever seen; they tell me it has not been re-seeded as long as they can remember, only kept clipped for a matter of some hundred years.

Of course, such perfection one cannot expect in purchasing, but sometimes he can approximate it; witness the house on the Round Hill road with its box-bushes, a house, by the way, perfect as a type of the late eighteenth century.

TERRA COTTA Garden Furniture



Furnish your Garden, Terrace and Piazza with Galloway Terra Cotta. An ideal material for outdoor decoration.

The best designs in antique and modern styles carefully executed in a strong, durable material capable of withstanding the severest climatic conditions.

Write for catalogue containing replicas of antique art in addition to an extensive collection of original designs
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There are many reasons why you should have only **Spear's Heating and Cooking Appliances**—the most modern, efficient, and economical

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Exact Tints From Pure White Lead Paint



ONLY by mixing paint to order can all gradations of tint be obtained.

One advantage of using pure white lead and linseed oil, and tinting the paint at the time of making, lies in the fact that the most minute variations of color may be secured. Another advantage is the permanency of these tints. They will not fade or wash out.

Furthermore, any kind of finish may be secured with pure white lead paint by changing the liquid constituents (oil, turpentine or varnish), giving dull, glossy or enamel surfaces.

For all painting, interior or exterior, specify pure white lead ("Dutch Boy Painter" trade mark). The "Dutch Boy Painter" is the guaranty of white lead purity and reliability.

Send for our "Dutch Boy Paint Adviser No. 91" and learn why pure white lead paint, mixed fresh with pure linseed oil at the time of painting, is the most satisfactory and most economical paint to use. Booklets on home decoration and landscape gardening included. All free.

Our Pure White Lead ("Dutch Boy Painter" trade mark) is now packed in steel kegs, dark gun-metal finish, instead of in oak kegs as heretofore.

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THIS attractive booklet contains interesting descriptions of Oriental rug designs, with beautiful illustrations of their American made reproductions. It gives helpful ideas and suggestions for floor coverings.

Sent promptly on request.

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Established 1880

CHOICEST TREES SHRUBS VINES Both ORNAMENTAL AND FRUIT
THE BEST THAT GROWS
GET CATALOGUE BEFORE PLACING ORDER
THE ELM CITY NURSERY COMPANY
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The Imperial Sanitary Table
Made with our composition top, smooth as glass, stainless and not affected by heat. Does away with foul-smelling unsanitary oil-cloth. Frame of hard wood, white enameled.

The Imperial Floor
is germ-proof, fire-proof, water-proof and practically wear-proof. It can be laid over any old or new floor without expensive preparation and presents a smooth, warm, non-slipping surface without cracks or crevices to collect dirt or germs.
The ideal flooring for private houses and public buildings. Samples FREE. Reliable agents wanted.

THE IMPERIAL FLOOR CO.
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Delivered East of the Mississippi

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of plans, elevations, specifications and estimates of Ideal Homes should be in the hands of every prospective home builder or home owner. The homes shown in this book are actual examples of homes already built, and the estimates of cost are taken from the exact figures and show just what you can do today with whatever appropriation you have allowed, from a \$1,600 bungalow to a \$10,000 house. This book besides offering many valuable suggestions and giving you a tangible basis from which to make your plans and arrange your appropriation, will be the means of saving you a good many dollars.

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— "Ideal Homes" — the most beautifully printed magazine of its kind in America, for the home owner and home maker, brings to you every month fully illustrated articles for improving and beautifying the home — by the ablest editorial and contributing staff in America, covering every branch of home making from architecture, interior decoration and landscape gardening to definite instructions for doing much of the simpler work yourself. Every home owner and prospective home owner should take advantage of this offer. Send us your name, address and \$1.00 today.

Smith Publishing Company
526 Atlantic Ave., Boston, Mass.



Both
for
\$1.00



Making the Porch More Livable

(Continued from page 213.)

A rival that is pressing hard upon the triumphant way of the porch is the paved terrace. It certainly has its charms, and also, like the porch, it has its drawbacks. It takes no light from the living-rooms of the house, but it is open to the weather, and in case of a sudden shower one has to fly. Awnings can of course be put up, and there is a charm and dignity about a terrace that a porch fails to give. I really think that both are necessary to the perfect country house. A terrace usually has a stone coping with broad steps leading down to the garden. Shrubs in carved stone or molded terracotta jars are placed at intervals; rugs can be spread on the tiled or brick pavement, carved stone seats or heavy wooden settles flank the walls and inviting chairs and tables stand about.

And so I say, if one is planning to build, by all means have both terrace and a porch. The terraces of the great English houses that have taken centuries to perfect can be our models, and with a good architect and landscape gardener we can have most beautiful ones ourselves. The garden of course adds a great charm to any porch or terrace and must be taken into account in planning the house. A pergola, leading from the porch to the garden, covered with vines, with a fountain in the distance, is a most alluring sight. Stone seats, jars, sun-dials and simple ornaments of all kinds are made for the garden, porch and terrace, and often give the last touch that makes the whole perfect.

Grow Your Own Vegetables

(Continued from page 220)

inch of the surface, is moist underneath. The dry surface acts as a "mulch" or blanket, through which the moisture cannot pass. If you pick up an old piece of wood that has been lying on the lawn or garden, and note how crumbly and damp the ground beneath it is, you will get an idea of the value of this dust mulch on the surface. One of the greatest values of the wheel hoe is its usefulness in maintaining this loose dusty surface. If you have a wheel hoe, of course your seeds will have been planted by the drill attachment, in straight *narrow rows*. With a little practice you can get the hoes adjusted to shave close on each side of the row, and still wide enough apart to enable you to work it just as fast as you can walk. Don't push the machine along steadily ahead of you, but at each step, with a wrist-and-elbow motion that will be easily acquired, pull it quickly back a little, making a series of strokes or cuts as you proceed. The flat blades of the hoes, which should be kept sharp, will cut along just beneath the surface, incidentally destroying any weeds which may be in their path, and create and maintain a dry, almost dusty

THE HOUSE BEAUTIFUL

COMPLIMENTARY PORTFOLIO OF COLOR PLATES

NOTABLE EXAMPLES OF

INEXPENSIVE DECORATION AND FURNISHING

"THE HOUSE BEAUTIFUL" is an illustrated monthly magazine, which gives you the world's best authority on every feature of making the home beautiful.

It is invaluable for either mansion or cottage. It shows you wherein taste goes farther than money. Its teachings have saved costly furnishings from being vulgar; and on the other hand, thousands of inexpensive houses are exquisite examples of superb taste from its advice. It presents its information interestingly and in a very plain, practical way. Everything is illustrated.

"THE HOUSE BEAUTIFUL" is a magazine which no woman interested in the beauty of her home can afford to be without. It is full of suggestions for house building, house decorating and furnishing, and is equally valuable for people of large or small income.

ELLEN M. HENROTIN,
Ex. Pres. Nat. Federation of Women's Clubs.

Its readers all say it is a work remarkably worthy, thorough and useful. The magazine costs \$3.00 a year.

But to have you test its value, for \$1.00 we will send you the current number and "THE HOUSE BEAUTIFUL" Portfolio gratis, on receipt of the Five Months' Trial Subscription coupon. The Portfolio is a collection of color plates and others of rooms in which good taste rather than lavish outlay has produced charming effects. The Portfolio alone is a prize which money cannot ordinarily purchase. Enclose \$1.00 with the coupon filled out and send to

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A "House Beautiful" illustration greatly reduced

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You may send me your Portfolio of Notable Examples of Inexpensive Home Decoration and Furnishing, and a copy of the current issue of "THE HOUSE BEAUTIFUL." I enclose herewith \$1.00 for a special rate five-month trial subscription to the "THE HOUSE BEAUTIFUL."

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The Portable House is a Luxury at a Moderate Cost

\$295 and up

To those who want to enjoy the summer in the country or at the seashore—who dislike boarding and hotel life—who want privacy and comfort at a price they can pay

The Springfield Portable House

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We build these delightful little homes in 25 styles. When you buy one we decorate it according to your wishes. Then we ship it to any place you may direct—freight prepaid.

They are made of Cypress and Red Cedar, thoroughly seasoned, in sections 10 to 12 feet long, and can be bolted together by three men, without muss or dirt, in two hours' time.

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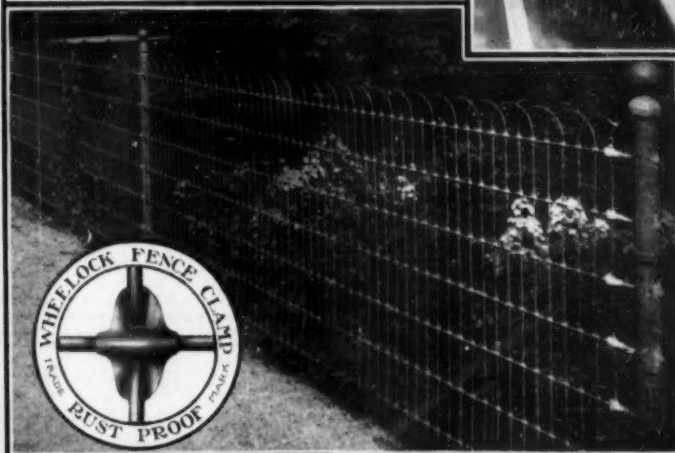
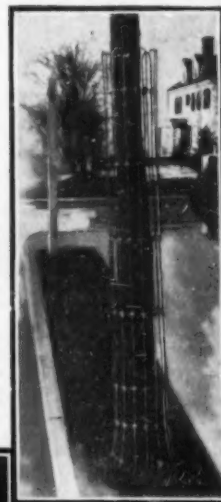
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Chicago

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When You Buy Fencing

for any purpose, keep this fact clearly in mind: WHEELOCK "RUST PROOF" is the acknowledged standard of users and dealers.



All genuine WHEELOCK products are made of heavy straight wires without bends or kinks, and heavily galvanized after weaving, clamp and all. Strong and rust-proof for all time.

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Insist on WHEELOCK "RUST PROOF." Look for the WHEELOCK FENCE CLAMP shown above. It's your protection. Your dealer has WHEELOCK "RUST PROOF," or can order it for you. If he won't, write us direct.

Meanwhile send for our art catalogue

WHEELOCK "RUST PROOF" FENCE CO.
OFFICE WORCESTER, MASS., FACTORY CLINTON, MASS.

SELECT YOUR TREES NOW

THIS CATALOG TELLS YOU WHY

It tells you why there is a special advantage in deciding what trees you had better have and why it is best to select such trees now. It is a mistake to wait and buy trees that are leafless when you can come to our nursery now and have the pick of the best there is, and see them full foliaged just as they will be when moved to your grounds.

Maples, Oaks, Catalpas, Lindens and such had best be moved in October, but Evergreens, Pines and Cedars can be handled with perfect safety as early as the first of August.

Although our particular specialty is big trees up to 25 feet high, still we have a goodly assortment of the smaller ones as well; so don't get timid because

we talk strongest about our big trees.

If all this we have said be so, then this is the time to get our catalog and begin to act. But don't think this catalog of ours is a dry-as-dust tree treatise—it is far from it. You will find it tells you just what you want to know, in the shortest way possible, and relies more on the illustrations than on the text to tell the story. It shows how the big trees are moved and how they look in their new location. An important thing to remember is that our big trees save you years of waiting for small trees to grow up. It costs but little more in the end to buy them already grown up.

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WESTBURY, LONG ISLAND

NEW YORK PORTABLE HOUSES GARAGES

Comfortable, substantial houses or bungalows that are Portable, Artistic, Inexpensive and Durable. Made of finest material. Absolutely weather-proof. Shipped in sections. Anyone can erect them easily. Complete in every detail. Delivered immediately. Portable garages for one or two cars. Write for folder.
NEW YORK PORTABLE BUNGALOW CO., Beck Place, Poughkeepsie, N. Y.

"If a man can write a better book, preach a better sermon, or make a better rat-trap than his neighbor; though he build his house in the woods, the world will make a beaten path to his door"—EMERSON

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"Quality and Economy"

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Paint and Varnish Manufacturers
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IT is far from our intention to create the impression that our stock is high priced. It is, however, exclusive in design, and it is also true that we have had the patronage of the most discriminating and particular people in all parts of the country.

The reputation of our furniture has been built upon distinctive features, such as, the simple artistic lines of our designs, solid construction, and a variety of custom finishes.

Our cottage furniture is especially adapted for both Shore or Country houses where a simple, harmonious and artistic effect is desired, conforming with the surroundings, and yet not sacrificing one's comfort.

Shipments are carefully crated, insuring safe delivery.

Send for complete set No. 6, of over 200 illustrations.

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32 Canal Street . . . Boston, Mass.



surface soil, which may save your crops during a prolonged period of dry weather, and at any rate will help them immensely. Such treatment, and the use of nitrate of soda, saved for me last summer, during the severest drouth of years, an acre of onions which under the ordinary culture would certainly have been a total loss. The nitrate was used in very small doses, considerably less than 100 pounds at a time. Some authorities claim that it has the power of increasing the moisture available for the plants, and others (as is not unusual in horticultural matters) contradict them. Whatever the reason, the fact remains that it did help. Probably the small amounts applied could not have helped to an appreciable extent the supply of moisture by any mechanical or chemical action, but it is not unlikely that, by stimulating the plants to stronger growth, the roots were enabled to push further and reach new supplies of the precious moisture.

Keep your garden up to the high standard you set out to attain. Even if the days are getting hot, you can work in the long late afternoons and evenings, and enjoy plenty of fresh greens and vegetables this fall when most gardens are turning to neglected patches of weeds.

You will be surprised to find what a little systematic, consistent planning and practicing will do towards transforming what so many persons consider the drudgery of gardening into an enthusiasm for everything that pertains to it.

The Portable Bungalow

MANY people who really want summer homes—small, inexpensive places in which to spend their vacation, perhaps, or even the entire summer season—do not build houses. They realize that a summer home is a desirable thing but refrain from building because they may tire of one location and want to spend the next summer in another locality. For such people



A portable, five-room bungalow erected in Massachusetts for \$915

the portable type of bungalow solves the problem completely.

You can buy portable houses of many styles and sizes, so designed that they may be put up, and taken down if need be, in portable sections.

The illustration shows a five-room cottage, 11 x 55 feet in size, with a piazza 7 x 55 feet along the whole front. This was erected in Massachusetts at a cost of \$915.

M. H. M.



What We are doing for our clients

Every day clients are bringing their agricultural problems to us to solve. During the past month several sought our advice on investing from \$10,000 to \$500,000 in apple orchards. Others engaged us to locate and layout their orchards for them. Still others asked us to report whether the farms they were thinking of buying were adapted to their special requirements. And where we were able to report favorably, we furnished complete plans of management.

But these are not the only ways in which we can serve you.

Our Wide Field of Work

includes advising in all matters pertaining in any way to your farm or country place—and drawing up a plan for its economical and efficient management.

We also make a big special feature of drawing plans for community living.

Send for our Booklet

You should know all about our absolutely unique organization and the numberless different ways our expert advice can save you money—all for one nominal fee.

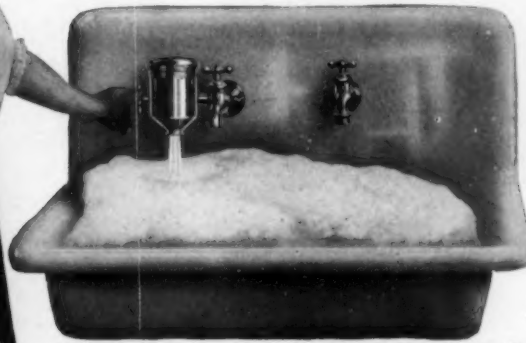
Write today while you think of it and state whether you are particularly interested in a farm or country place

The AGRICULTURAL EXPERTS Ass'n, Dept. C.
 Geo. T. Powell, Pres.
 5 and 7 East 42d St.
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Try This **RICHMOND** Suds-Maker Free



You simply turn the faucet and The **RICHMOND** Suds-Maker delivers thick, hot suds. It does not in any way interfere with the hot water faucet and can be easily attached to it. It gives you instead, two faucets—one for clean, hot water—the other for thick, hot suds.



Think of the dozens of ways this ingenious device will cut down the work in the kitchen! Learn what it means to save hundreds of steps every day—to always have thick creamy soap suds on tap. The **"Richmond"** Suds-Maker gives you any quantity of soap and water thoroughly mixed in scientific proportion—it is always ready to meet your instant needs. It puts an end to the drudgery of dishwashing—simply place dishes, silver, glassware under its creamy suds for an instant, then just rinse and wipe. It puts an instant automatic end to waste, to unsightly soap dishes, to the nuisance of using up the odds and ends of soap. Use any kind of soap.

Just send your name and address together with the name and address of your local plumber and we will forward by express prepaid one **RICHMOND** Suds-Maker. Use it ten days—then if you think you can spare it, return it at our expense. This is your chance to learn about the greatest convenience, money and time saver you can install in your kitchen. Write today.
THE McCRUM-HOWELL CO. 223 Terminal Building New York, N. Y.

THE MODEL PLANT SUPPORT

for Tomatoes, Peonies, Dahlias, Golden Glow, Chrysanthemums, etc.,



Grow tomatoes that are larger, more abundant, and without blemish.

will give you more and better vegetables and flowers, besides making your garden one of neatness and beauty.

Your tomatoes will mature more quickly and give you more perfect fruit; your peonies, dahlias and other heavy-blossomed plants will be far more luxuriant where the MODEL SUPPORT is used; your garden will never be scraggly nor untidy.

MODEL PLANT SUPPORTS cost little, can be used over and over again and repay their cost many times in a single season.

Made of heavy galvanized wire, they are strong, light and will not rust.

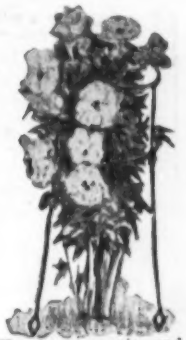
PRICES: Per dozen\$1.75
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 Per 100 12.50

Send for catalogue of our full line of flower supports.

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Keep your peonies and other heavy-blossomed plants out of the mud.



SEND for our "Garden and Lawn Cyclopedia"—a booklet of great value to every home owner. Address Department J

"ELECTRIC" Garden Hose fits into the scheme of a well kept place—whether large or small. It suggests adherence to the best standards in everything; conveys an idea of thrift, stability, good management.

There is not, and cannot be, any other hose like "ELECTRIC." Its manufacture is protected by basic patents. Consists of alternating tubes—not strips—of pure rubber and braided seine twine vulcanized by tremendous pressure into a unified fabric. "ELECTRIC" costs but little more than other hose. Lasts three times as long.

Electric Hose & Rubber Co.
 Wilmington, Del., U.S.A.



VENETIAN BLINDS

Imported from Sweden

ERICSSON



Illustrating Automatic Arrangement of Regulating Devices

Note These Ten Reasons Why They Are Being Universally Installed

- 1-It has stood its test all over Europe for over 60 years.
- 2-Nothing but the highest grade of material and workmanship used throughout its construction.
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- 4-It obviates the unsightly outside and expensive inside shutters, replaces the shade and awning. Absolute control of light by our simple and new device.
- 5-Overcomes the clumsiness of the common Venetian Blind by making the laths thin and of light material but still retaining the strength accomplished by secret process known only to us.
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- 9-Can be taken down as easily as a shade roller, without aid of any tools, which is of great advantage when cleaning the blind and window.
- 10-Practically indestructible, simplest, and nothing like it on the American market.

Send for More Information

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Garden and Porch Furniture

Send for Catalogue

North Shore Ferneries Co., Beverly, Mass.

UNDERGROUND GARBAGE RECEIVER

Ever wished for a Garbage Can in which garbage cannot stink in summer? A can in which flies cannot breed and spread typhoid germs? A can having a cover which every time closes tight automatically—and cannot be opened by prowling dogs and cats? A can which, being out of sight, does not disfigure the backyard? The Stephenson Underground Garbage Receiver has all these advantages.



I also make Underground Earth Closets for Camps and for Dwellings without Sewerage and Portable Metal Houses for same.
SOLD DIRECT. Send for circular.
C. H. Stephenson, Mfr.
20 Farrar Street, Lynn, Mass.



Book Reviews

[The Publishers of House and Garden will be glad to furnish any books desired by subscribers on receipt of publisher's price. Inquiries accompanied by stamp for reply will be answered immediately.]

Wayside and Woodland Ferns. A Pocket Guide to the British Ferns, Horsetails and Club-Mosses. By Edward Step, F. L. S. Color Plates. Cloth, Sq. 8vo, 137 pp. London and New York: Frederick Warne & Co. \$2.25 net.

The profusion of illustrations, half-tones and color-plates in Mr. Step's volume make it worth while to every fern-lover, even though the book is upon British species, for nearly all the ferns described are also native to America.

Days Spent On a Doge's Farm. By Margaret Symonds. Illustrated. Cloth, gilt top, 16mo, 288 pp. New York: The Century Company. \$2.50 net.

This is the delightful account of the Lombardy country told by the daughter of the late John Addington Symonds. It has to do with the happy summer days she spent on a north Italian estate that was once the property of the Venetian Doge, Alvise Pisano, and gives one an intimate idea of modern Italian life.

Little Gardens for Boys and Girls. By Myrta Margaret Higgins. Illustrated. Cloth, Sq. 12mo, 153 pp. Boston and New York: Houghton Mifflin Company. \$1.10 net.

A very useful little book giving explicit directions to boys and girls for making and caring for their little gardens. It is well illustrated and attractively bound in colors.

A Guide to the Birds of New England and Eastern New York. By Ralph Hoffman. Illustrated. Cloth, 12mo, 357 pp. Boston and New York: Houghton Mifflin Co. \$1.50 net.

This book is the result of experience with many field-classes, and the enthusiastic bird-lovers in the localities to which its information is restricted will be glad to add it to their shelves.

Manual of Gardening A Practical Guide to the making of Home Grounds and the Growing of Flowers, Fruits and Vegetables for Home Use. By L. H. Bailey. Illustrated, Cloth, 12mo, 539 pp. New York: The Macmillan Company. \$2 net.

Any volume from Professor Bailey's authoritative pen is worthy of a place in the library of every garden lover. The present book, reconstructed from this author's "Garden-Making" and "Practical Garden-Book," is no exception.

In Praise of Gardens. Compiled by Temple Scott. Cloth, 16mo, 240 pp. New York: The Baker & Taylor Company. \$1.25 net.

A little book of poems about gardens, including practically every passage of high poetic beauty written in English by garden-lovers of all periods.



Much of the charm of the old Colonial room was due to the prismatic rays of the cut crystals together with the soft rays of the candle or lamp. This same quality, in a lamp of this kind, is just as valuable to-day when lighted with the more modern illuminant—electricity.

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IVES' PATENT Window Stop Adjuster.



PATENTED.
The only Stop Adjuster made from one piece of metal with solid ribs and heavy bed that will not cup, turn or bend in tightening the screw. Manufactured only by The H. B. IVES CO., New Haven, Conn., U. S. A. (Fifty-page Catalogue Mailed Free.)

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Better Fruit,

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are secured by using

Bowker's

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It kills all leaf-eating insects, caterpillars, etc., prevents unsightly blemish; also improves color of apples, pears, peaches, etc., It increases yield of potatoes and vegetables. Enough to make 50 gals. solution \$1.75. Booklet free. No experiment. Introduced 1898.

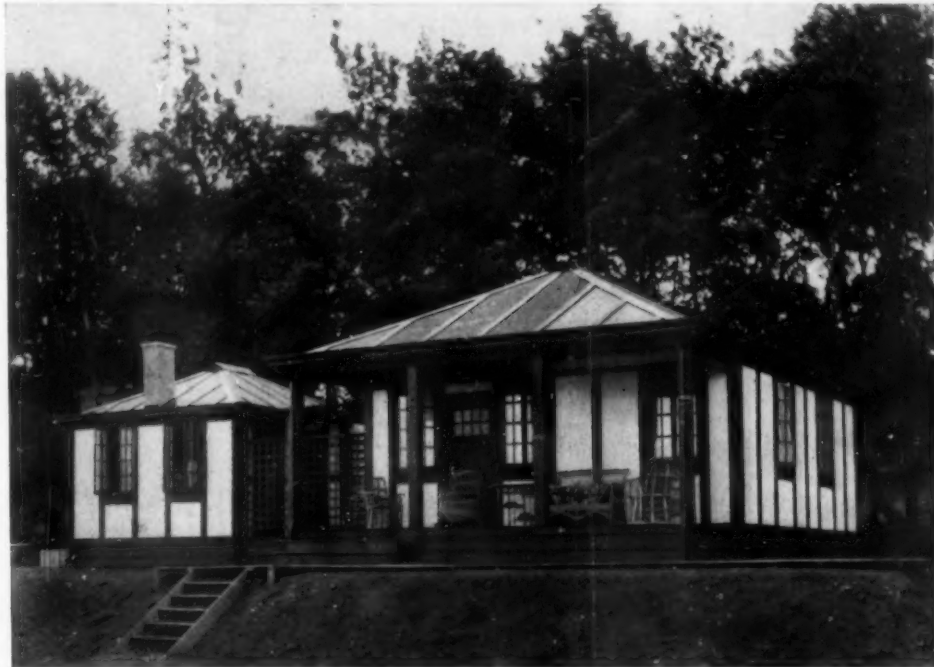
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Also Specialties for Scale Insects, etc. Bring all your outdoor "Bug" troubles to us.

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Portable and Permanent

Any Number of Rooms and Any Size



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The panels are Gray Asbestos Cement, Roof Moss Green, Woodwork a Mahogany Brown
We make this class of house from 3 to 20 rooms.

WE ALSO MANUFACTURE AND ERECT

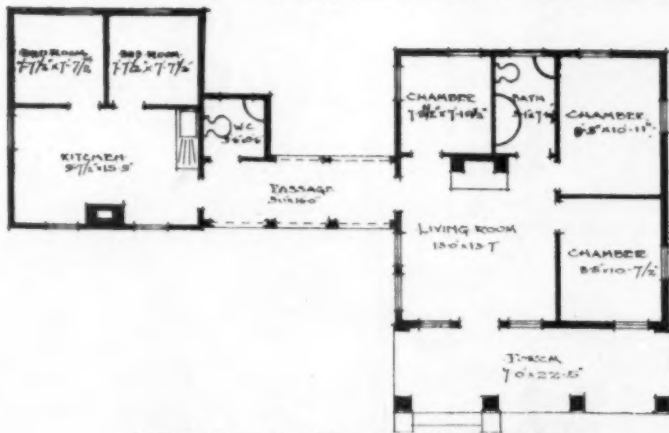
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Our materials are Yellow Pine and Asbestos, Reinforced and Tybee Concrete, Steel and Asbestos



FLOOR PLAN OF MRS. GOULD'S BUNGALOW



CHA-WA TEA HOUSE
PRICE \$60.00 AND UP.

Send for Booklet, Photographs and floor plans.

BILLINGS-STEVENSON COMPANY

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The ivory white enamel used on the standing woodwork of this hall, together with the rich mahogany stain for hand rail and doors provides an ideal setting for quaint mahogany furniture.

Inexpensive soft wood can be properly used under enamel, thus reducing the total cost of the house. The selection of the wood and its finish should be early determined, as the treatment of the woodwork is the foundation of all color schemes. The stains, enamels and finishes of Murphy Varnish Company suggest artistic and beautiful effects in decoration.

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Rhododendrons, Azaleas,

*and Hardy American Plants
for Immediate Effect.*

Specimen Stock, Lists and Beautifully
Illustrated Catalog sent on request.

HARLAN P. KELSEY, Owner, SALEM, MASS.

Success in Market Gardening. By Herbert Rawson. Illustrated. Cloth, 16mo, 271 pp. New York: Doubleday, Page & Co. \$1.10 net.

This volume is a version of a previous work of the late W. W. Rawson, published some years ago under the same title.

Indoor Gardening. By Eben E. Rexford. Illustrated. Cloth, 16mo, 318 pp. Philadelphia: J. B. Lippincott Company. \$1.50 net.

Mr. Rexford's book is not a scientific treatise, but a popular book intended for the amateur gardener who is especially interested in house-plants and the way to make them thrive.

A Self-Supporting Home. By Kate V. Saint Maur. Illustrated. Cloth, 8vo, 344 pp., gilt tops. New York: The Macmillan Company. \$1.75 net.

Mrs. Saint Maur has given us an interesting and helpful account of the home that suggests her title. Poultry raising and its practical consideration takes up a great part of the book, which is most valuable in other matter that will appeal to everyone who wishes to make the country home pay.

Cleaning and Renovating at Home. By E. S. Osman. Cloth, 12mo, 193 pp. Chicago: A. C. McClurg & Co. \$0.75 net.

This is a practical compendium of all the cleaning, dyeing and renovating processes that can be carried on in the home. The book will be found a most complete and practical guide to the subject.

Home Furnishing, Practical and Artistic. By Alice M. Kellogg. Illustrated. Cloth, 16mo, 265 pp. New York: Frederick A. Stokes Company. \$1.50 net.

In this useful volume Miss Kellogg has aimed to give practical help to the aspiring home artist, and has taken up the various rooms throughout the house and their problems separately.

The God of Love. A novel. By Justin Huntly McCarthy. Illustrated. Cloth, 16mo, 346 pp. New York: Harper & Brothers. \$1.50 net.

A novel which has for its hero the poet Dante, and for its scene the Florence of olden times.

The Collector's Handbook to Ceramics. By William Chaffers. 350 illustrations. Cloth, 16mo, 316 pp. New York: Charles Scribner's Sons, Importers. \$1.50 net.

Mr. Chaffers is a recognized authority on Ceramics, and this little hand-book is excellent in its arrangement and copiously illustrated.

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THE best gutter is naturally of metal and the best type is the open one. The built-in gutter, which has to be flashed up under the roof covering, is almost sure, from its character, to aid ice and snow in its destructive passage under the roof covering. The open gutter is less liable to do this, being free from the cornice. Under favorable conditions,

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These favorite models embody excellent design, ease of application, protection from rust and the combination groove suiting them for either sash cord or chain. Electrically welded insuring great strength. —Once used, always used.

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Saphine positively kills plant insects of every species, without injury to the most delicate flowers or foliage.

Saphine invigorates plant life. It is endorsed by leading entomologists and horticulturists.

Saphine Collier's Weekly says has a future as long and wide as the United States.

Saphine is sold by high class seedsmen everywhere

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With the new tungsten lamp electric light is the most economical and most perfect of all lighting systems. It gives the most pleasing artificial light known—the nearest approach to sunlight we have. The cost per 16 candle power lamp is less than 1/20 of a cent per hour! We make

Complete Plants
for residence lighting with gasoline engine, electric generator, switchboard, batteries, wiring, lamps, etc.

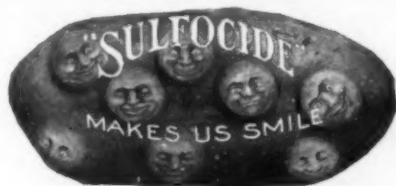
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\$262 and up
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When the engine is not in use generating current for lighting it may be used for pumping water, sawing wood, etc.

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Kiln dried and pulverized. No weeds or bad odors. Helps nature hustle. For garden, lawn, trees, shrubs, fruits and house plants.

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Apply now

The Pulverized Manure Co., 25 Union Stock Yards, Chicago



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YOUR own individual rug, different from all other rugs, and in a high class wool fabric adapted to your own decorations. If the rugs in stock colors do not suit your requirements, we will make one that will, either plain, self-tone or contrast. All sizes up to twelve feet wide, any length. Seamless, wool welt, reversible, heavy and durable. Sold by best shops, or write for color line and price list to **ARNOLD, CONSTABLE & Co., New York.**

THREAD & THRUM WORKSHOP,
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"You choose the colors, we'll make the rug."



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Running Water
In every sleeping room
Without Plumbing
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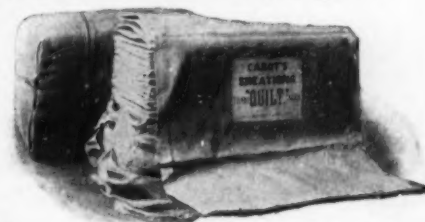
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Monroe Refrigerator Co., Station 16, Cincinnati, O.

copper is the best gutter, but an excellent all-around and inexpensive material is galvanized charcoal iron.

Around chimneys, lead is the best material for flashing, as it can readily be shaped to the irregularities of brick or stone. It should be cut in pieces to lay in with the courses of the roof covering and built into the masonry rather than inserted afterwards.

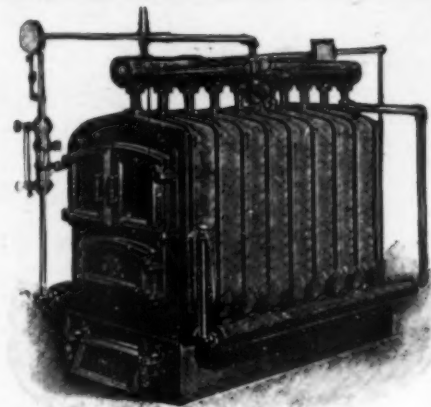
The best hip flashing is made of copper, in pieces about seven by five inches (for shingles). These are bent to cover the two abutting units in each course and the two lower corners bent down to fit around the butts of said units. These flashings hold the joints securely and are not damaged in removing the roof covering.

The leaky place in a roof is generally the valley. This is largely due to the fact that the ordinary valley is not properly constructed. There are two methods of construction, each governed by climatic conditions. For an ordinary climate where snow, when it does come, is not apt to last long, the close valley is the thing; it is also better looking than its alternative, the open valley. The close valley, as its name indicates, is one where the two courses of roof covering intersect each other with the intersection of their respective roof planes. The flashing should be made to conform with the courses and laid to be just covered by them. A turn-up on each roof plane from four to five inches and a length equal to two courses is large enough for the individual flashings. Copper is preferable to lead as its stiffness helps to keep shingles from curling, and, being covered, it is largely protected from atmospheric conditions. However, lead will retard the curling tendency in a measure and on shingle roofs will probably wear as long as the roof covering.

While the close valley is good when water runs freely, it is not the best method where snow and ice remain in the valley for any extended period. An open valley, where the flashing is from two to four feet from the plane intersection to the roof covering proper, is a form much favored in some parts of Maine. In its construction, the exposed flashing is close jointed, and if extended under the roof covering from six to ten inches and supplemented by loose, course flashings soldered to it, the job has some chance of effectiveness. It is hardly necessary to state that the continuous and loose flashings should be of the same metal.

The conditions that demanded the open valley also require a similar treatment for the eaves. That is, a solid jointed flashing with an adequate drip is made to extend for several feet up the roof before encountering the roof covering proper and from that point it *should* continue under the covering some sixteen or twenty inches. There are strenuous searching qualities about melted snow that make it highly advisable to do things thoroughly in this case.

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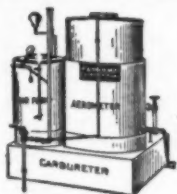
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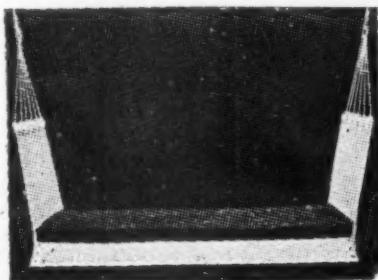
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Old Brass-Ware

BY MARVIN COLE

IT is uncertain how ancient an ancestry brass-ware has, but its antiquity must be very great. In mediæval times we hear of it in England, and thence onward down to our own time brass has been one of the favorite materials in the manufacture of household utensils and ornaments.

The early American settlers brought over with them from England a great quantity of objects in brass-ware, such as andirons, fire-tongs, warming-pans, bells, door-knockers, candlesticks, hearth-shovels, mortars, chafing-dishes, tea-caddies, candle-snuffers and the like. Then there were braziers, and pans for carrying coals from room to room, before the days of matches.

From the inventory of Governor Bradford, dated 1657, we may see what a high value, in Colonial days, was placed on brass-ware, for the governor seems to have considered his "Kittles and Candlesticks" to be worth a pretty sum.

Then there were fenders from the designs of Chippendale and others; usually made of pierced sheet brass, elaborately patterned, objects to be found in the most fashionable houses of the period.

Perhaps the most interesting examples of this brass-ware of the Colonial period were the lanterns to be found in the entrance halls of every house that had any pretensions to gentility. Such a lantern hung in the hall of General Washington's house at Mount Vernon.

As our ancestors were less particular than we about placing beverages in brass receptacles, many brass bowls and brass cups were imported by them from Holland and elsewhere for table use.

Among the notable early metal workers we must give first place to Paul Revere, who made many articles of brass as well as those of silver and of other metals.

In connection with the history of old brass it is interesting to recall that in olden days brass boxes were placed by the doors of the London coffee-houses, each box having a slit in it to receive coin, and the letters "T. I. P." engraved on the top. These stood for the legend "To insure promptness," and thus originated our word "tip," for any coin given waiters for service.

Later, Russian brass-work came into America, bells, samovars, trays, urns, etc. Indeed collecting old brass is a fascinating and satisfying pursuit. As the durability of its material has preserved old brass from destruction the collector will have no trouble in finding excellent specimens in his searching about, only he must use his judgment

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Colonial Furniture and Historical China
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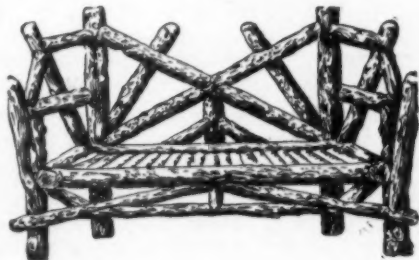
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**Strokum Stops Caterpillars
Anyone Can Put It On**

SIMPLY band it around your trees. No need to cut the bark down smooth before applying, as Strokum fills up the bark chinks, and the caterpillars or tussock moths can't crawl under it and won't crawl over it.



The second crop will soon be going up the trunks, now is the time to put on Strokum. It lasts an entire season, but does not stick to the bark all winter as do the unsightly smeared-on tar preparations.

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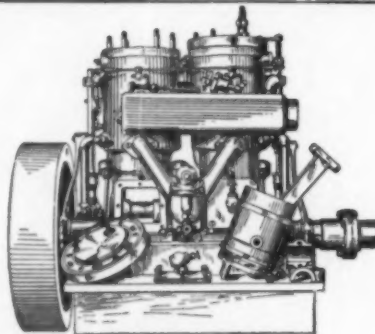
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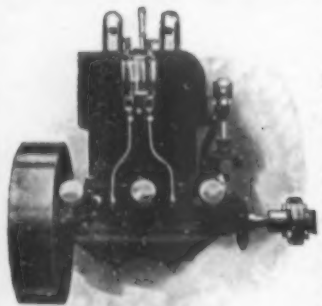
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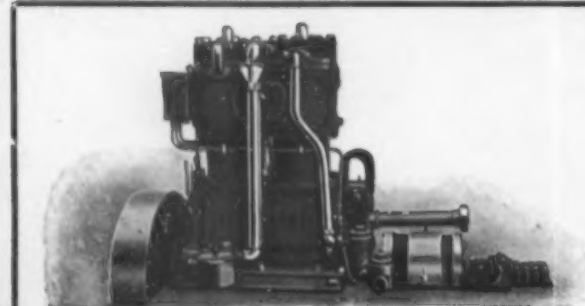
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Beginning at New York let us see what we have in the way of inland cruising water for the favored motor boatman. First, if one is ambitious he may make the trip from New York to Duluth, a distance of 1,600 miles, a route that will give every variety—up the historic Hudson, through the placid Erie Canal, where pastoral scenes abound, then through the sometime tempestuous Lakes. But sections of this cruise will satisfy the average man. The cruise up to Albany, following the route of Hendrick Hudson, and his doughty Hollanders is a delightful one—a total length of 144 miles.

Instead of being lured off at Albany by the Erie Canal, which runs in uninterrupted course to Buffalo, the cruiser will be amply repaid by resolutely continuing on his northward course. Here is found the most popular cruise in Eastern waters, the Lake Champlain route to the Thousand Islands. Entering the Champlain Canal, 7 miles above Albany, a run of 66 miles along this picturesque waterway, brings one to Whitehall at the southern end of the lake. Then follows the wonderful trip through Lake Champlain on into the Richelieu River, the Chambly Canal, ending at Sorel on the St. Lawrence River, a distance of 81 miles from the head of the lake. At this point the navigator heads his boat up the St. Lawrence and passes Montreal, 46 miles upstream. And further along the charming scenery of the Thousand Islands bursts into view. A run from there may be made to Clayton, thence around Cape Vincent into Lake Ontario. If the cruiser is of a venturesome nature he may continue across the

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at section



enjoyment of a summer home by the water. A country house with a water situation, whether it be by lake, river or sea, is far from taking advantage of built craft and a reliable engine. In this Motor Boat Section appear announcements of only reliable boat and engine manufacturers. Their product has fair treatment and reliable service. We shall be very glad to advise any of our readers in regard to the purchase or equipment of a motor boat or

lake to the Welland Canal into Lake Erie and thence into the other lakes.

Should fancy dictate the Erie Canal cruise, this waterway is entered at Albany, passing through the Mohawk Valley to Buffalo. The entire distance is approximately 300 miles. At Syracuse if one is tiring of the trip and wants to see Lake Ontario before turning homeward he may enter the canal to Oswego, 38 miles long.

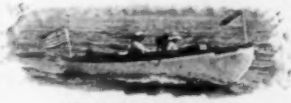
If the cruise is to be to Duluth, at the western end of Lake Superior, then at Buffalo the tourist lays his course for Cleveland, 176 miles distant; from thence to Detroit, 107 miles, into the Detroit River, passing Detroit on the way to Lake St. Clair. Through this delightful little inland sea on into the Government Ship Canal, which leads into the St. Clair River, the tourist will then find himself in Lake Huron, at the head of which, 300 miles northwest, is Mackinac Island. Passing this historic spot one may either head around Lake Michigan and sail southward to Chicago, or pass up through the St. Mary's River, which leads into Sault St. Marie, "the wonderful Soo," and thence into Lake Superior.

If the vacationist fancies more particularly the placid waters of the South, he will find the cruise from New York to the foot of Chesapeake Bay a continual delight. Leaving New York the bay is navigated and the run is made through the inside passage back of Staten Island, first through the Kill Von Kull and the Arthur Kill, a distance in all of about 18 miles. At South Amboy the Raritan River is entered, and at New Brunswick it connects with the Delaware and Raritan Canal. Emerging into the Delaware River at Bordentown, this stream is followed to Delaware City, where the Chesapeake and Delaware Canal, a short waterway of 14 miles, is traversed. Passing through a natural stream of water called Black Creek, which connects the canal with the Elk River, and thence to Turkey Point, the Chesapeake is there reached.

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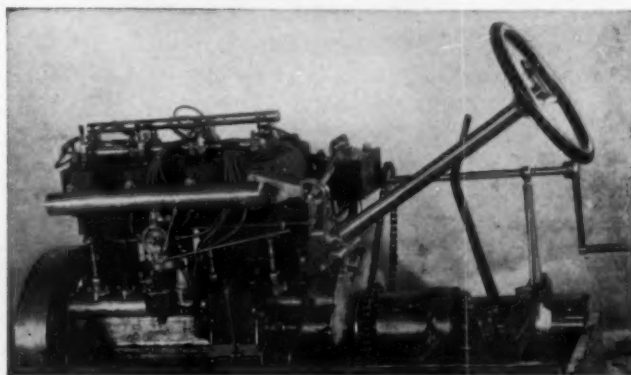
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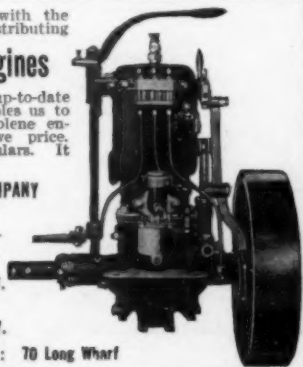
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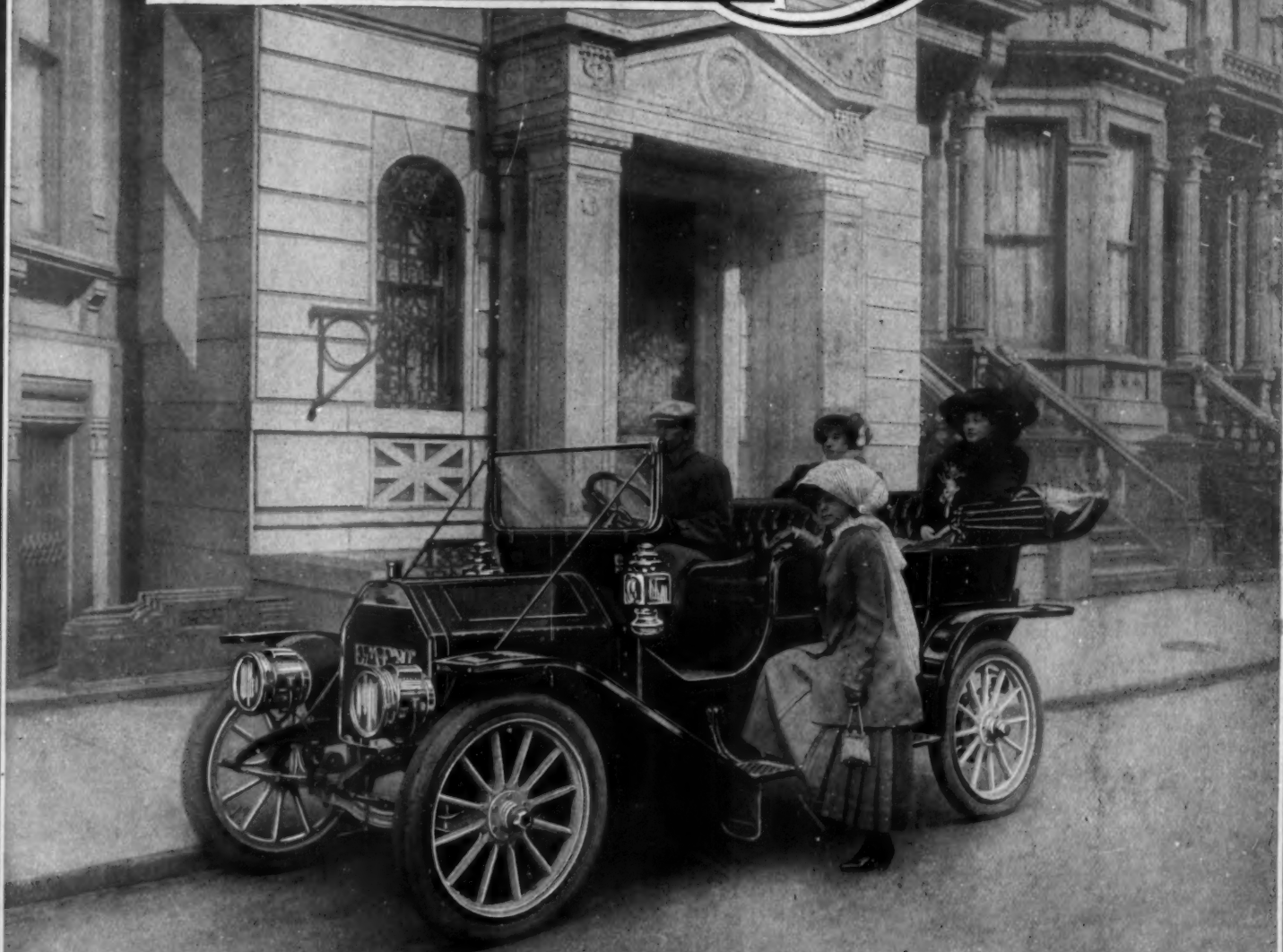
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