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Let Us Give You Facts and Figures

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HELP FOR THE MAN WHO WANTS TO BUILD

Demand Proper Installation of Heating System

Many heating plants fail, not alone
because of inadequate size or poor
manufacture, but in many cases be-
cause of poor installation.

If you hope to obtain satisfactory
heat for your home and at minimum
heating cost, it is absolutely essential
that you first investigate heating
plants, making selection of a good one
and then insist upon good workman-
ship with quality materials. Remem-
ber that once your heating system is
installed it may cause you no end of
trouble and expense to make it over
and change it, as you certainly must
do if you have not selected the type
and kind of heating system best suited
to your problem.

HOW HOT WATER OPERATES

Hot water is a popular, satisfactory,
easily controlled heat for a home, pro-
vided it is properly installed. In prin-
ciple it operates somewhat like hot
air. The water is first heated in the
boiler, next it expands, grows lighter,
rises and passes through the piping
system to the radiators; here it cools
and, falling, is returned through
separate set of pipes to the boiler for
reheating and circulation.

Once heated, hot water will remain
so for a number of hours. You may
let your fire get low, but still the
water is warm and gives off heat. Or-
dinarily hot water plants, that is to
say, the boiler and mains, are placed
in the cellar. Suppose, however, you
want hot water heat and have no cellar
beneath your home, then it is possible
and practical to install both the radi-
ators and boiler on the same floor level.
The mains, which carry the heated
water to the radiators, can be sus-
pended from the ceiling. The water
will pass to the radiators and be
taken back to the boiler through pipes
carried along the baseboard of the
room.

HOW TO PREVENT FREEZE UPS

If your home is small you can pur-
chase a small hot water heater of the
kind that looks like a cabinet. It
looks well and serves the double pur-
pose of heater and radiator. This
can be placed in one of your rooms
to supply heat for other radiators. It
is particularly well adapted for homes
with cellars or those built on
low, wet ground where excavating be-
neath the home is impracticable. Freez-
ing and breaks are preventable if pipes
are not placed in outside walls and if
the vent pipe from the overflow tank is
properly installed and insulated. This
type of installation is very inexpen-
sive.

You can control hot water from the
floor above by the use of an electric
damper regulator. In fact, this can
be done with any heating plant. This
insures a constant even temperature
and notable economy in the use of
fuel.

Radiators should be placed along out-
side walls and as near the windows
as possible. This is the position of
greatest efficiency for them. It will
help to eliminate cold drafts and air
from reaching the floor.

Be sure your boiler and piping are
adequately covered with proper insu-
lating material. See to it that the
boiler can be easily cleaned and oper-
ated. Make sure that all joints are
tight before the pipe covering is in-
stalled. Get a guaranty from a reli-
able heating contractor that your home
will be properly heated during the most
severe weather.

MILL NEAR COMPLETION

Chehalis, Wash., Aug. 5.—The Joe
Wilkins shingle mill near the Baxter
place at the mouth of Salmon creek,
is nearing completion, but it will be
nearly a month before the mill will be
ready to run. The brickwork has
been laid for the boiler which are in
Winlock, will soon be placed in their
place. This is a four block mill, with
a claimed daily capacity of 250,000

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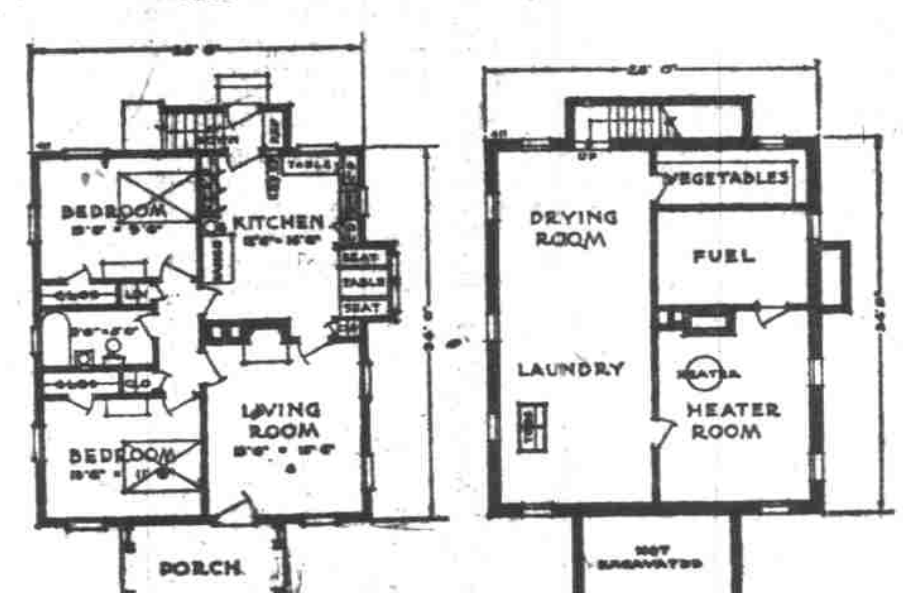
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Home For Economy



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FACTS AND FIGURES ABOUT THIS HOME

While economy is always an important factor in planning a small home,
this design proves that a four room bungalow can be practical, inexpensive
to build and exceedingly attractive all at one and the same time. The good
proportion, the varied rooflines, nice spacing of windows, spacious porch, all
add their share to the pleasing exterior.

Type of House—Bungalow. Style—American cottage. Suitability—
Adapted to all regional and climatic conditions. Size—Four primary rooms
and bath, dining alcove and basement; no attic. Dimensions—Outside, 28
feet wide, 34 feet deep. Ceiling height, 8 feet.

Exterior Walls—Frame construction. Insulated, wide siding. Roof—
Shingles, either wood or composition. Exterior woodwork painted white,
blinds green, roof broken tones of green. Exterior can be stucco on metal
lath if preferred.

Cost of House—\$4000 to \$5000, depending upon locality and equipment
used. This includes heating, lighting, plumbing, ready to live in. The lowest
cost here stated can be decreased by eliminating expensive fittings and
equipment. Eliminations such as fireplaces and basement partitions will
further decrease the cost.

Features—Pleasant, sunny living room, fireplace, dining alcove, porch,
living quarters separated from sleeping quarters by private hall, bed rooms
cross ventilated on two sides, adequate closet space, kitchen
designed to minimize steps and lessen labor. The dining alcove will ac-
commodate six or seven persons. The bath is provided with medicine cabi-
net and four large built-in drawers. A linen closet and large coat closet
are provided in hall separating sleeping and living quarters. House built
of stock and standardized material. This eliminates extra waste, and
consequently lowering building costs.

This home is compactly planned, includes every modern convenience and
even though simple incorporates a distinctive charm and individuality that
will set it apart as being different from other homes in the same locality.
If built of quality materials and good workmanship, it should prove good
investment value.

Home Builders' Clinic, Copyright, A. S. H. S. E.

shingles. The bolts, or most of them,
are to be run down Salmon creek, and
it is claimed there is a very large sup-
ply of shingle bolt timber still avail-
able on that stream and its tribu-
taries. These shingles will be trucked
to Toledo, and shipped from there on
the cars to southern points. For the
present dry kilns will not be used, as
the management believe that they can
dispose of the output of the mill in

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What You May Want to Know About Building

Questions addressed to this paper will be
answered by the Architects Small House Ser-
vice Bureau of the United States, Inc., con-
trolled by the American Institute of Archi-
tects and advised by the Department of
Commerce, United States Government. In-
clude self-addressed envelope for reply.

Q—Our old home is equipped with
gas for illumination. We wish to
install electricity. Of course, we do
not want the wires to show. Can
you tell us how this can be done?

A—It is very difficult to wire an
old house such as you describe with-
out exposing the wiring, at least to
conceal the wires in the partition wall or
ing but considerably more difficult
to conceal them where they must run
across the ceiling outlets; in fact,
this can be done only by removing
some of the boards in the floor above
the ceiling outlet. This almost al-
ways permanently defaces the floor.
One solution to this is to use stand
lamps which can be connected to base
plugs set in the baseboards. It is
possible to run wires to these loca-
tions without difficulty so as to have
them practically concealed. Of course
the wires can be run inside your old
chandeliers in the pipes that former-
ly carried the gas.

Q—We have decided to use birch
flooring throughout our new home of
the grade which is known as No. 1.
Will you please tell us how to finish
this floor so as to make it look well?

A—You may finish this kind of
flooring so as to get a very beautiful
effect if you will have it oiled with
hot linseed oil, as a base for wax or
varnish. Birch flooring is very light;
the oil will darken it slightly, im-
parting a rich yellow tone. One coat
of oil will do very well. Additional
coats will not harm the floor more.
The oil has a beneficial effect on the
wood, making it somewhat water
proof and more durable.

Q—What makes a water faucet get
out of order? Those in our house
either run too small a stream or else
pound in such a way as to shake the
whole house. What causes this? How
can it be fixed?

A—This is caused by the rubber
valves inside the faucet becoming
misshapen through use. In Fuller
type faucets these valves are rubber
balls that move backward or forward
with the operation of the faucet han-
dle so as to open or close the
aperture through which the water
passes. It is very easy to remedy
this condition.

Unscrew the faucets that are giving
trouble. You will find at the end of
a rod at the base of the faucet a
small egg-shaped ball made of rub-
ber and fastened by means of a single
nut. Remove and replace this ball
with a new one. You can obtain a
supply of new Fuller balls from your
plumber or hardware man.

Perhaps your faucets are of the
type in which a rubber washer or
disk is screwed down against a metal
valve seat to close off the water.
When this disk is worn the faucet
will leak, requiring replacement of
the disk. This is a very simple op-
eration which you can do. Vibration
in pipes secured with Fuller type
faucets is sometimes caused through
wearing of the metallic operating
parts within the faucets. In that
case replacement of the parts will
be required and you should have this
done by your plumber.

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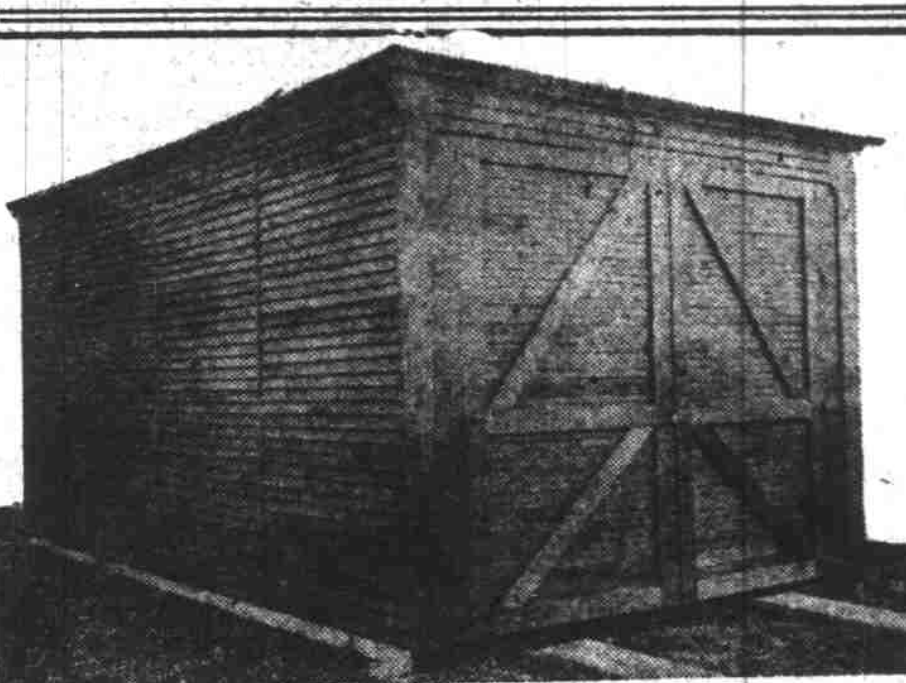
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