

# DO-IT-YOURSELF

## Reduce Your Winter Fuel Bill By Complete Home Insulation

By J. RALPH DALZELL

In the winter many readers inquire about top floor ceiling or roof insulation and about condensation dampness troubles in the insulated areas. Early autumn is a good time to install insulation and to make sure that condensation will not occur.

If insulation is installed between joists under an attic space the rooms below will be more comfortable and bring substantial fuel savings. The cost of insulation is relatively low and the installation is not difficult.

Picture V shows joists, lath and plaster floor under an attic space. As indicated, several kinds of insulation can be used. If the attic is floored, the flooring must be temporarily removed. Blanket insulation can be tacked in place through the flanges. Loose fill should be at least four inches thick. A moisture barrier (waterproof felt or building paper) should be placed between blanket and plaster. The flanges of reflective (aluminum foil) insulation can be tacked between the joists. It needs no moisture barrier.

As shown at A and F in pictures W and Z respectively, insulation can also be installed in roofs or in the walls and ceilings of attic rooms. When insulation is installed even with moisture barriers, some of the humid air in the rooms under the attic or roof

escapes to the unheated (cold) attic spaces or the spaces between ceilings and roofs. Moisture in this air condenses and causes dampness. To avoid this the attic spaces must be ventilated so that humid air is exhausted to the exterior before it can condense.

Picture W shows eave vents and a roof louvre. If insulation is installed in the attic floor (B) or in the roof (A), the vents and the louvre, as indicated by the arrows, create the necessary ventilation to avoid condensation. Both vents and louvres can be purchased at lumber yards.

Picture X shows how small attic spaces can be ventilated. Picture Y shows how eave vents and proper ventilation are created for shed (almost flat) roofs. Picture Z shows how ventilation can be created when attic spaces contain rooms.

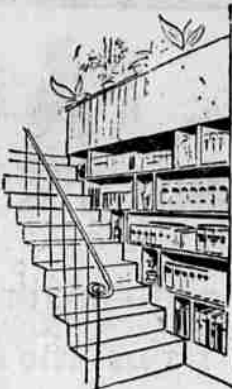
Ample ventilation can be assured if enough eave vents, spaced around the roof, are used to create about four square feet of vent opening for every one thousand square feet of attic floor area.

The next two stories will contain more information about winterizing houses.

### QUESTIONS AND ANSWERS

A—How can I strain sediment from liquids?

A—Pour liquids out of a bottle capped with a loosely-packed steel wool cork.



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### WOOD IN KITCHENS

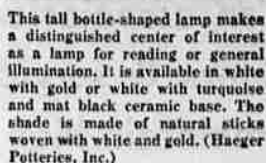
When a Los Angeles consultant firm started out recently to learn new home buyers' preferences for kitchens, they found 93 per cent of the people wanted wood cabinets and builtins. Such popular softwoods as Douglas fir and west coast hemlock, when finished naturally or with the new stains, develop distinctive beauty of natural grain and interesting figure variations in the texture.

### SIZE

The Northern Hard Maple tree often reaches a diameter of three feet and often rises sixty feet to its first limb. Individual trees on fertile soil occasionally reach one hundred and twenty feet in height.

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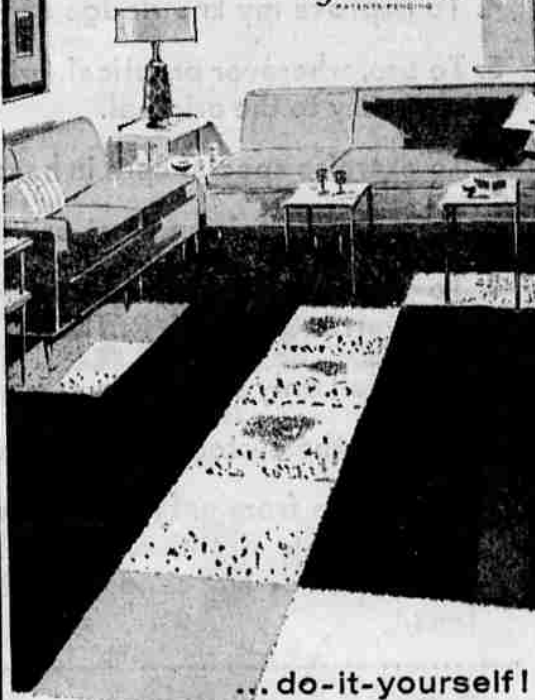
This tall bottle-shaped lamp makes a distinguished center of interest as a lamp for reading or general illumination. It is available in white with gold or white with turquoise and mat black ceramic base. The shade is made of natural sticks woven with white and gold. (Haeger Potteries, Inc.)

### RAILROADS

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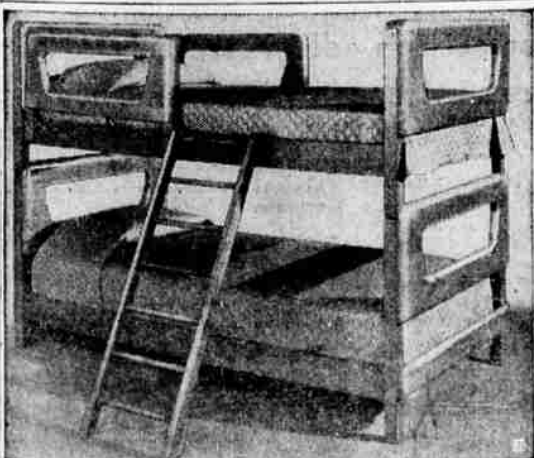
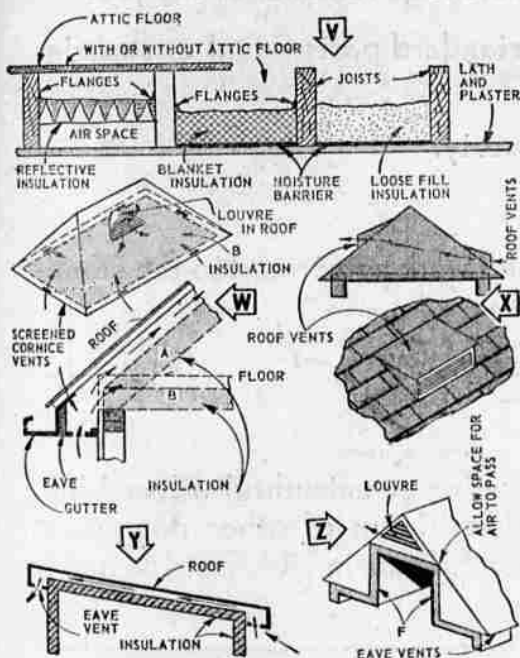
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