

# Oregon Agricultural College Extension Service

O. D. CENTER  
Director

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Extension Bulletin 294

Corvallis, Oregon

May, 1918

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Oregon Agricultural College and United States Department of Agriculture, Cooperating

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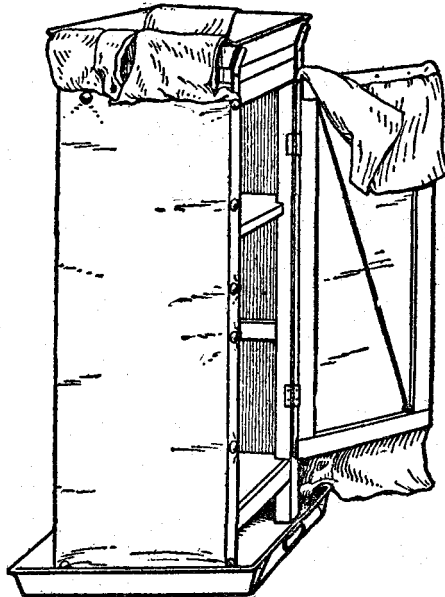
## THE ICELESS REFRIGERATOR

(Weekly News Letter, April 26, 1916,  
United States Department of Agriculture.)

A companion convenience to the fireless cooker for the hot summer days is the iceless refrigerator, or milk cooler. This consists of a wooden frame, covered with canton flannel or some similar material. It is desirable that the frame be screened, although this is not absolutely necessary. Wicks made of the same material as the covering rest in a pan of water on top of the refrigerator, allowing the water to seep down the sides. When evaporation takes place the heat is taken from the inside, with a consequent lowering of the temperature. On dry, hot days a temperature of 50° can be obtained in this refrigerator. The following description will aid in the construction of this device:

Make a screened case 3½ feet high with the other dimensions 12 by 15 inches. If a solid top is used, simply place the water pan on this. Otherwise fit the pan closely into the

opening of the top frame and support it by 1-inch cleats fastened to the inside of the frame. Place two movable shelves in the frame, 12 to 15 inches apart. Use a biscuit pan 12 inches square on the top to hold the water, and where the refrigerator is to be used have the whole thing standing in a large pan to catch any drip. The pans and case may be painted white, allowed to dry, and then enameled. A covering of white canton flannel should be made to fit the frame. Have the smooth side out and button the covering on the frame with buggy or



Iceless Refrigerator

automobile curtain hooks and eyes, arranged so that the door may be opened without unfastening these hooks. This can easily be done by putting one row of hooks on the edge of the door near the latch and the other just opposite the opening with the hem on each side extended far enough to cover the crack at the edge of the door, so as to keep out the warm, outside air and retain the cooled air. This dress or covering will have to be hooked around the top edge also. Two double strips one-half the width of each side should be sewed on the top of each side and allowed to extend over about  $2\frac{1}{2}$  or 3 inches in the pan of water. The bottom of the covering should extend to the lower edge of the case.