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F. LUTZ.
REFRIGERATOR.
APPLICATION FILED FEB. 2, 1910.

965,473.

Patented July 26, 1910.

Fig. 1

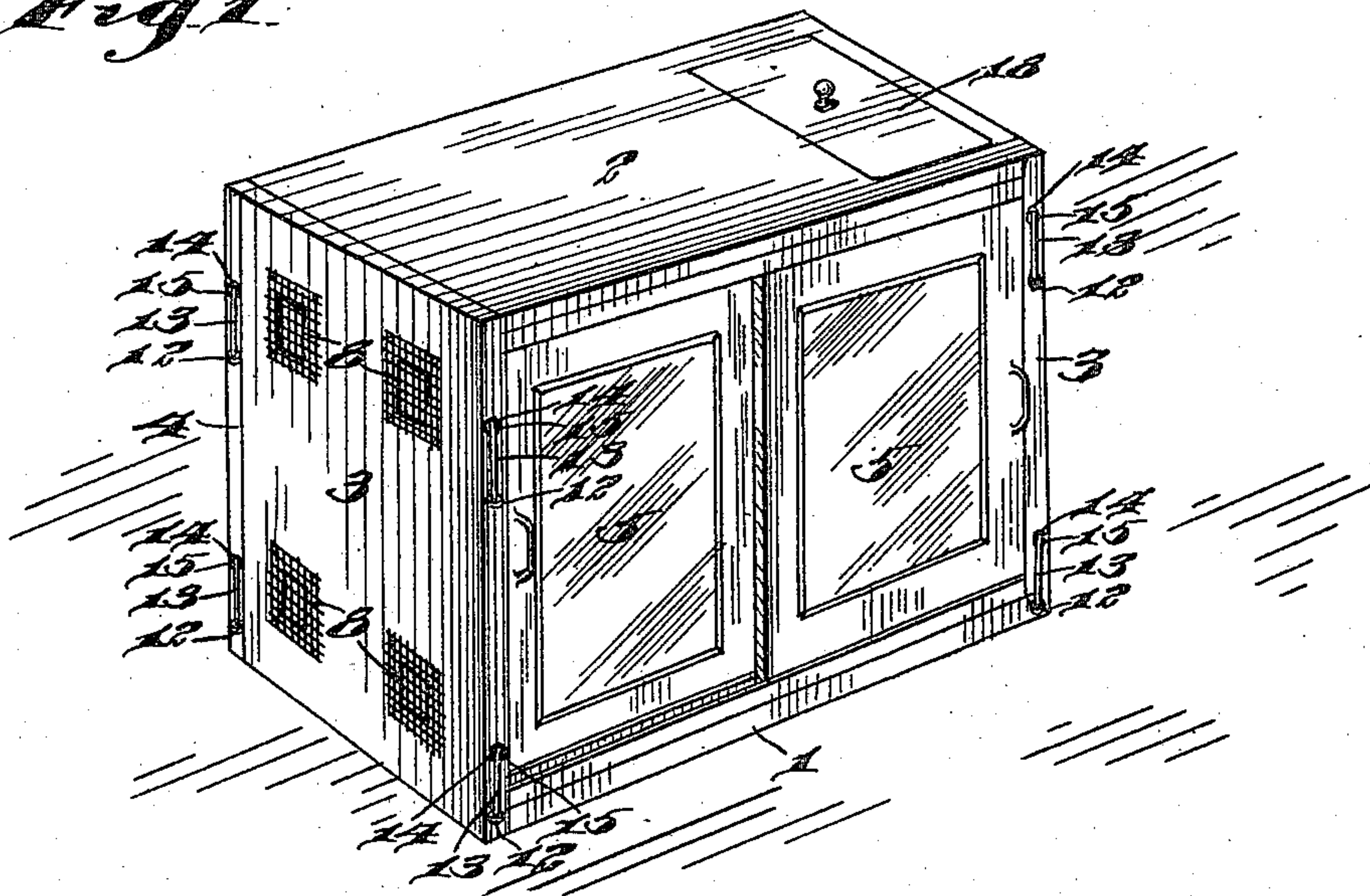


Fig. 2.

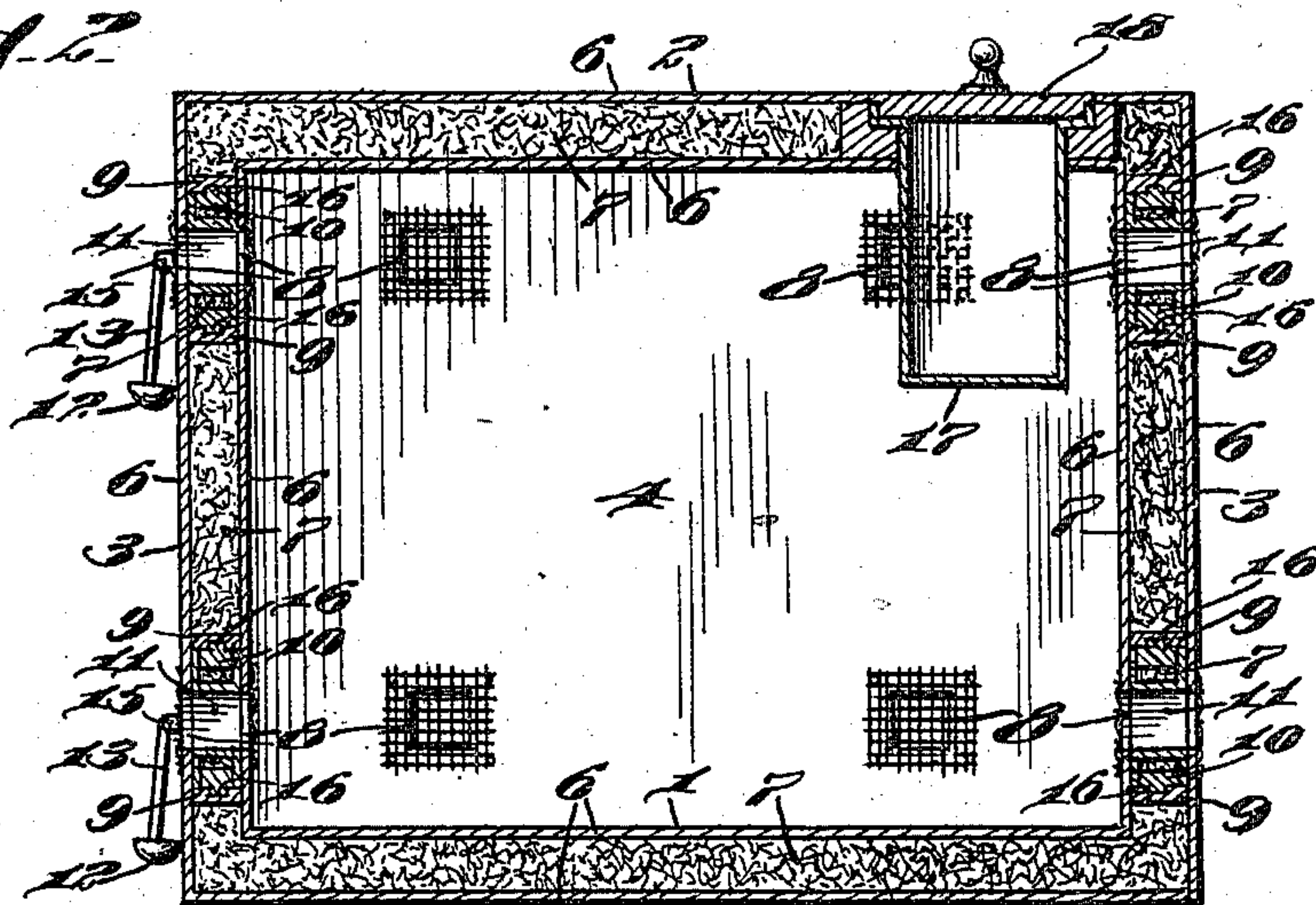
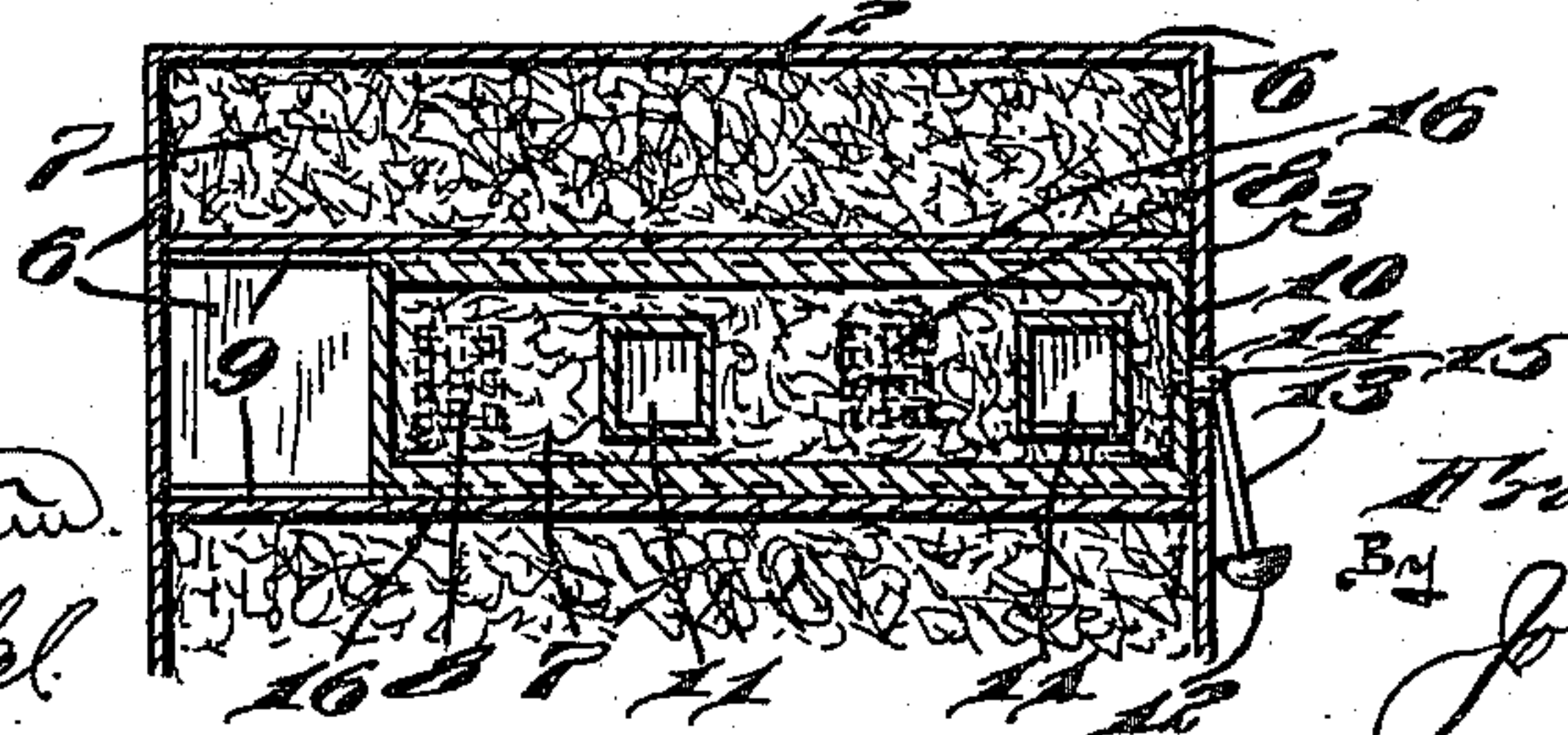


Fig 3



Witnesses
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UNITED STATES PATENT OFFICE.

FREDRICK LUTZ, OF PHILADELPHIA, PENNSYLVANIA.

REFRIGERATOR.

965,473.

Specification of Letters Patent.

Patented July 26, 1910.

Application filed February 2, 1910. Serial No. 541,466.

To all whom it may concern:

Be it known that I, FREDRICK LUTZ, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Refrigerators, of which the following is a specification.

My invention relates to improvements in refrigerators, the object of the invention being to provide improved means whereby the refrigerator may be thoroughly ventilated when no ice is being used, and which may, when ice is being used, be tightly closed against any entrance of air into the refrigerator.

A further object is to provide an improved refrigerator having its walls packed with wool and the like, and provide wool packed slides adapted to open or close ventilating openings in the walls of the refrigerator.

With these and other objects in view, the invention consists in certain novel features of construction and combinations and arrangements of parts as will be more fully hereinafter described and pointed out in the claims.

In the accompanying drawings, Figure 1, is a perspective view of my improved refrigerator. Fig. 2, is a view in longitudinal section, and Fig. 3, is a fragmentary view in longitudinal section illustrating my improved slide.

The refrigerator comprises a bottom 1, top 2, ends 3, back 4, and doors 5, 5, closing the front. These walls and the doors 5, each comprise double thicknesses of wood or plates 6, 6, spaced apart with a packing 7 of wool or other suitable material between them, to render them nonconductors and prevent interchange of temperatures with the outside air. The ends 3 and back 4, are provided with screened openings 8, the screens being located against both the inner and outer plates 6 so as to effectually exclude insects. In the walls, above and below the openings 8, grooved strips 9 are secured and constitute guides for sliding bars 10. These bars 10 are hollow, as shown and packed with wool 7 or other suitable material, and are provided with boxed in openings 11, adapted when the bars 10 are moved to one extreme position, to register with the openings 8 and permit a free circulation of air through the refrigerator. When the bars

10 are moved to their opposite extreme position, the openings 8 will be effectually closed by bars 10 and entrance of air is prevented. The bars 10 are provided with flanges 16 which move in the grooved strips 9 and effectually guide the movement of the bars 10. To manipulate the bars 10, knobs 12 are provided on the ends of short rods 13 which project through openings 14 in the walls and are pivotally connected by staples 15 with the ends of the bars. By moving these knobs 12 in and out, the slides can be moved from one position to another. It will be noted that when the bars are drawn outward to close the openings 8, the knob 12 will fall and lock the bars against accidental movement. The doors 5, 5, are mounted to slide in the front of the refrigerator and move one behind the other to permit access to the interior.

An ice box 17 having an ordinary cover 18 is provided and the interior of the refrigerator may be constructed in various ways to suit the trade.

In warm weather the bars 10 will be moved to closed position, but in cold weather, when no ice is used, the bars 10 will be moved to open position to permit a free circulation of air through the refrigerator.

Various slight changes might be made in the general form and arrangement of the parts described without departing from my invention, and hence I would have it understood that I do not restrict myself to the precise details set forth, but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of my invention.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

1. In a refrigerator, the combination of a wall, comprising two parallel plates spaced apart and having registering openings, screens over said openings, longitudinal strips forming a longitudinal passage including said openings, packing between said plates above and below said strips, a hollow box-like slide having openings adapted to register with the openings in the plates, packing in said box-like slide around its openings, and means for moving said slide longitudinally, substantially as described.

2. In a refrigerator, the combination of a

wall, comprising two parallel plates spaced apart and having registering openings, screens over said openings, longitudinal strips forming a longitudinal passage including said openings, packing between said plates, above and below said strips, a hollow box-like slide having openings adapted to register with the openings in the plates, packing in said box-like slide around its openings, means for moving said slide longitudinally, said strips having longitudinal grooves, flanges on said slide movable in

said grooves, and a pivoted rod secured to one end of said slide, and adapted to hold said slide in either of its operative positions, substantially as described. 15

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FREDRICK LUTZ.

Witnesses:

R. H. KRENKEL,
CHAS. E. POTTS.