

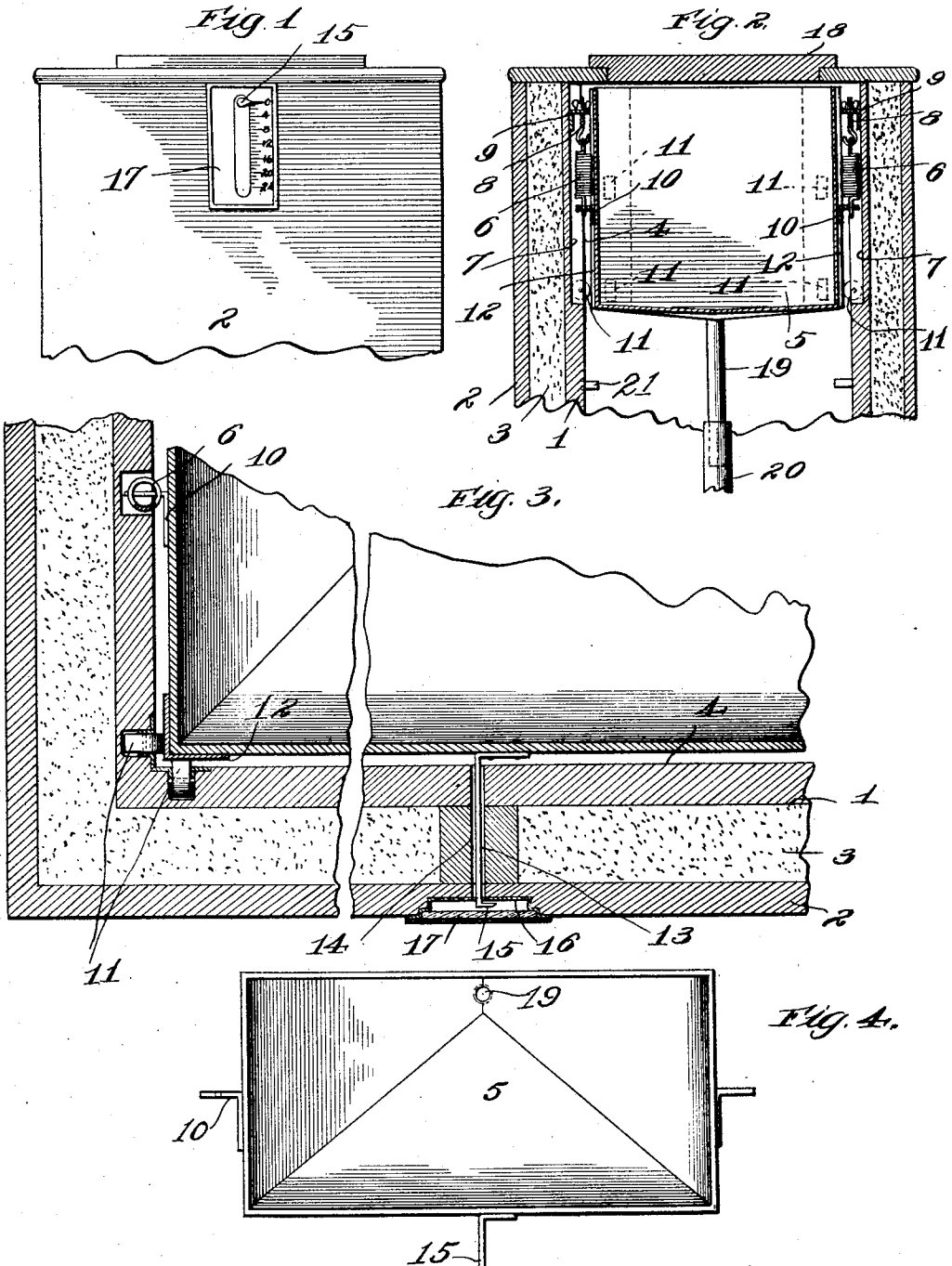
L. O. NELSON.

SCALE ICE BOX.

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1,001,158.

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UNITED STATES PATENT OFFICE.

LARS OSCAR NELSON, OF CHICAGO, ILLINOIS.

SCALE ICE-BOX.

1,001,158.

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To all whom it may concern:

Be it known that I, LARS OSCAR NELSON, a citizen of the United States of America, and a resident of Chicago, county of Cook, State of Illinois, have invented certain new and useful Improvements in Scale Ice-Boxes, of which the following is a specification.

The main objects of this invention are to provide an improved form of refrigerator in which the ice receptacle is yieldingly suspended and adapted to actuate scale mechanism for indicating the weight of the contents; to provide an improved arrangement of the suspension and guiding mechanism, whereby a minimum amount of space is required between the walls of the receptacle and the compartment in which the receptacle is located.

An illustrative embodiment of this invention is shown in the accompanying drawings, in which:—

Figure 1 is a front elevation of the upper portion of a refrigerator, showing the arrangement of the scale mechanism. Fig. 2 is a sectional elevation of the upper part of a refrigerator, illustrating the manner in which the receptacle is suspended therein. Fig. 3 is an enlarged transverse sectional detail of one corner of the refrigerator and ice receptacle. Fig. 4 is a plan view of the ice receptacle.

In the construction shown in the drawings, the refrigerator is of the usual construction, comprising inner and outer walls 1 and 2, between which is confined the insulating packing 3. An ice receptacle 5 is suspended in the compartment 4 by springs 6, which are partly housed in recesses 7 formed in the walls 1 at opposite sides of the receptacle. A plurality of anti-friction guide rollers 11 are located at each side of the four vertical corners of the walls 1 of the compartment, the rollers being also disposed in pairs, one above the other. The walls 1 are recessed to receive the rollers 11, so that only a minor portion of their peripheries extends inward of the surface of the walls. The springs 6 are connected at their upper ends to screws 8 which are adjustably mounted in brackets 9 secured to the walls 1, and said springs are connected at their lower ends to brackets 10 secured to the receptacle 5. The adjusting of the screws 8 allows for a correc-

tion to be made for any inaccuracy of the springs 6. This arrangement of the rollers guides the receptacle in its vertical travel and practically prevents its tilting in any direction, even though the weight of the contents may be concentrated at one side. Angle irons 12 are secured at each side of the four vertical corners of the receptacle 5 and serve as tracks which ride on the rollers 11.

The scale mechanism comprises a rod rigidly secured to the receptacle 5 and protruding through a slot 14 formed in the refrigerator walls and terminating in a pointer 15, which is adapted to coact with the dial 16 for indicating the weight of the contents of the receptacle. The dial 16 is set in a recess formed in the wall 2, and is visible through a glass front 17.

Access is had to the receptacle 5 by means of a door 18, which in the drawing is shown as being located in the top of the refrigerator. A drain pipe 19 is secured to the bottom of the receptacle, which telescopes with a water outlet pipe 20. Stops 21 are secured to the wall 1 of the compartment in position to limit the movement of the receptacle 14 when the springs 6 have been extended to the limit of their capacity.

Although but one specific embodiment of this invention is herein shown and described, it will be understood that some of the details of the construction shown may be altered or omitted without departing from the spirit of this invention, as defined by the following claims.

I claim:—

1. In a refrigerator having a cooling compartment, the combination of an ice receptacle vertically movable therein, suspension springs for supporting said receptacle, guide rollers located at each side of the vertical edges of said compartment, the walls of said compartment being recessed to receive said guide rollers and springs whereby only a minor portion thereof projects inward from the surface of said walls to bear against said receptacle to prevent its tilting, and scale mechanism actuated by the vertical movement of said receptacle for indicating the weight of its contents.

2. In a refrigerator having a cooling compartment, the combination of an ice receptacle vertically movable therein, brackets on

the walls of said compartment and receptacle, suspension springs connected to said brackets for supporting said receptacle in said compartment, guide rollers acting between the walls of said compartment and each vertical face of said receptacle to prevent the tilting of said receptacle, and a scale mechanism adapted to be actuated by

the vertical movement of said receptacle for indicating the weight of its contents. 10

Signed at Chicago this 8th day of February 1911.

LARS OSCAR NELSON.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."