

(No Model.)

H. CRAWFORD & J. M. LONG.

HOISTING FOOD COOLER.

No. 295,360.

Patented Mar. 18, 1884.

Fig. 1.

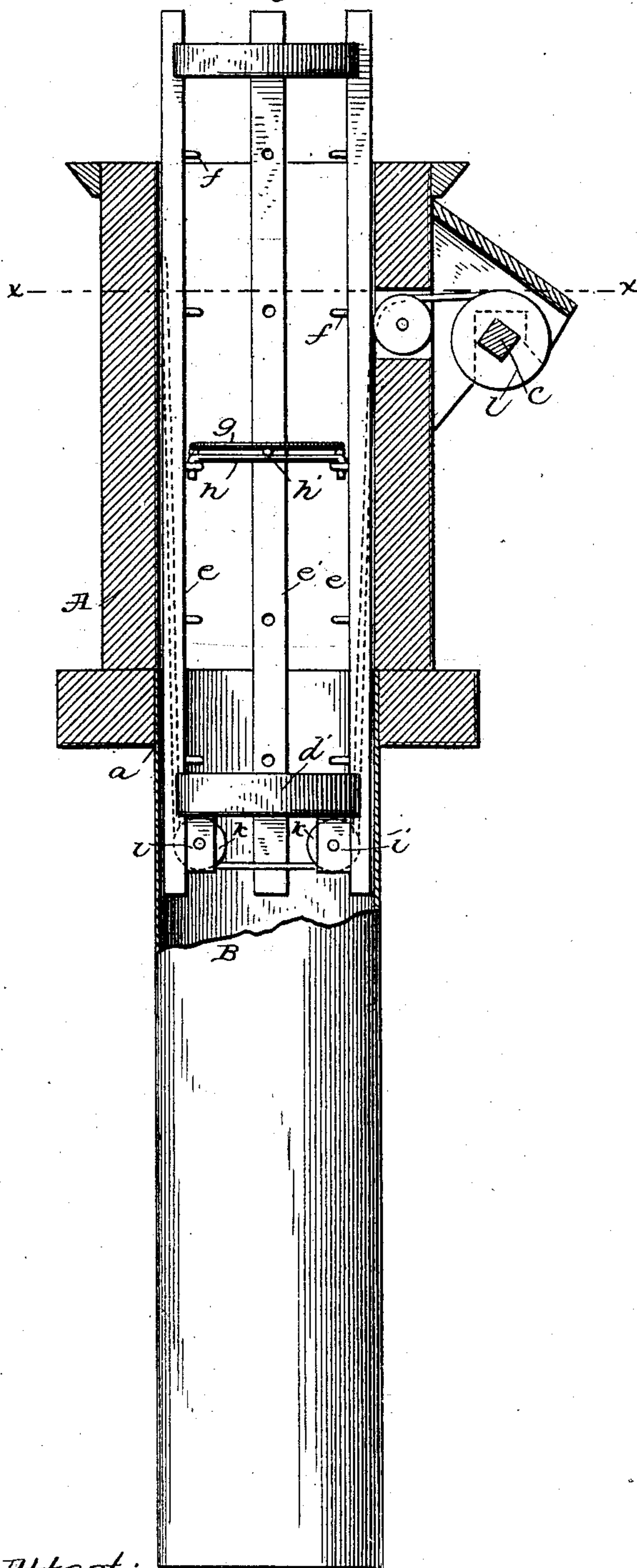


Fig. 2.

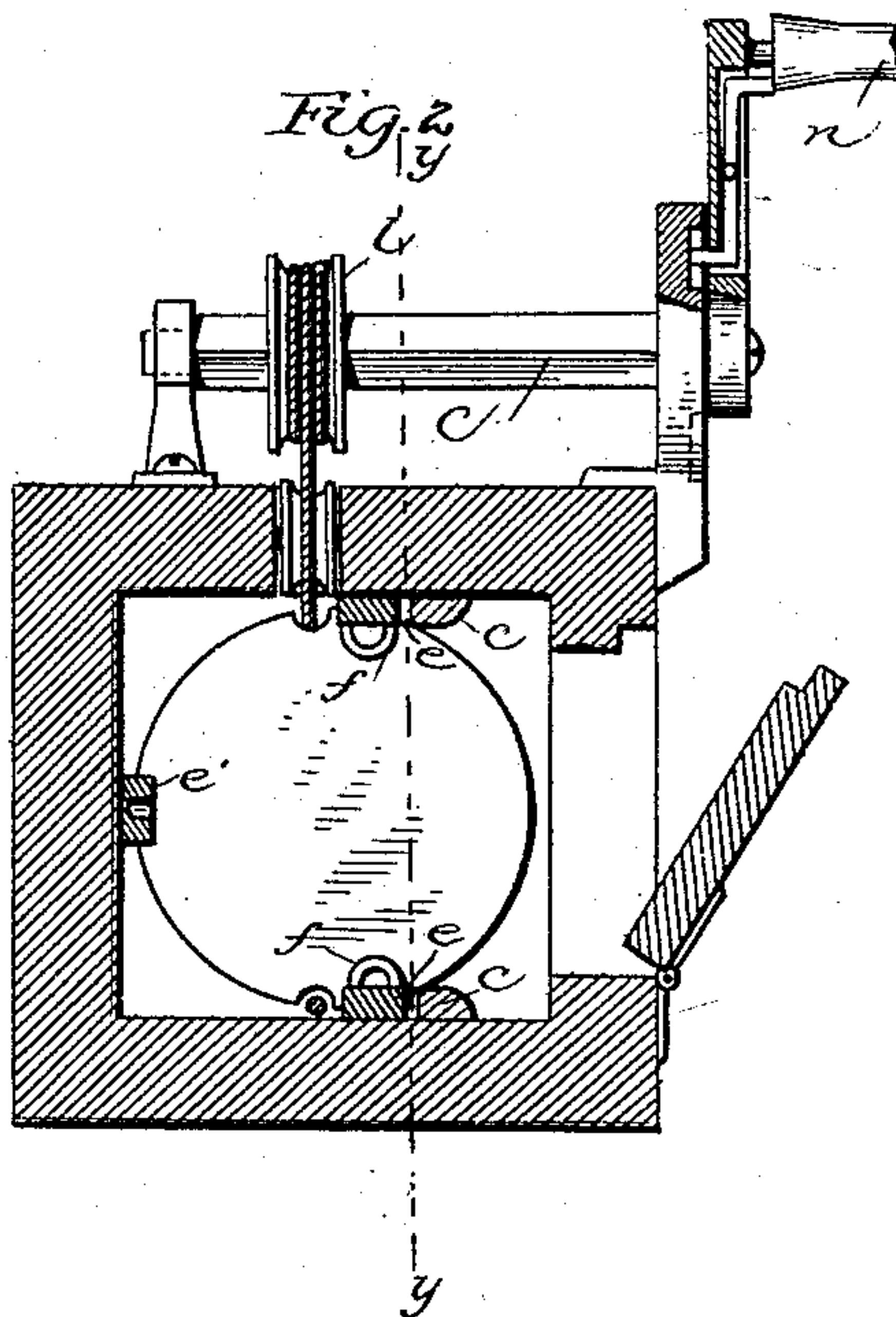
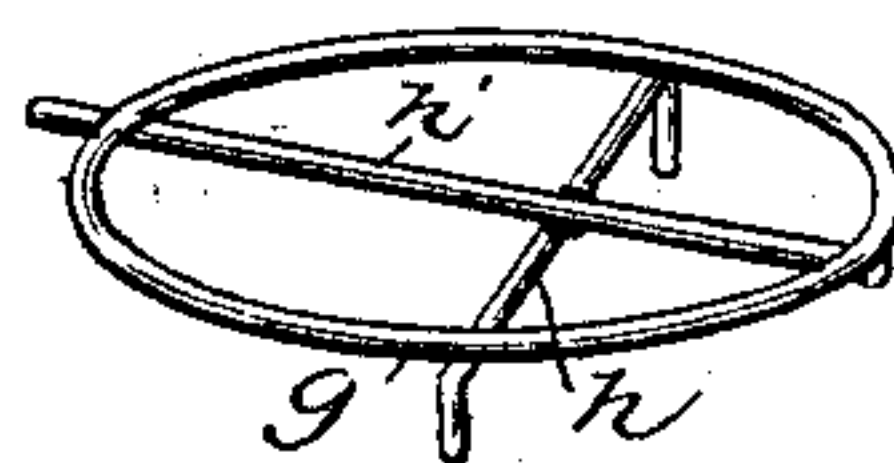


Fig. 3.



Attest:

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# UNITED STATES PATENT OFFICE.

HENRY CRAWFORD AND JOHN M. LONG, OF VIRDEN, ILLINOIS.

## HOISTING FOOD-COOLER.

SPECIFICATION forming part of Letters Patent No. 295,360, dated March 18, 1884.

Application filed June 29, 1883. (No model.)

*To all whom it may concern:*

Be it known that we, HENRY CRAWFORD and JOHN M. LONG, of Virden, in the county of Macoupin and State of Illinois, have invented a new and useful Improvement in Food-Coolers; and we do hereby declare that the following is a full, clear, and exact description of the same.

Our invention is an improved cooler or refrigerator of the class which are adapted to be lowered into a well or other cavity in the ground.

The object is to simplify the different parts of the apparatus, and to secure thereby economy in space and material.

In the accompanying drawings we have represented our invention as applied to a well, Figure 1 representing the receptacle in side elevation, the upper part in longitudinal section on line *y y*, Fig. 2, and Fig. 2 in horizontal section on line *x x*, Fig. 1. Fig. 3 is a detached perspective view of the food-supporting frame within the cooler.

The completed receptacle is placed in a well, or in a suitable cavity in the ground adapted to receive it. It consists of a box or case of suitable size and shape, preferably made of wood, and wider than the opening in the ground, so as to rest upon a suitable foundation at the top thereof. Suspended from this box or case A, to which it is fitted through an opening, *a*, in the bottom, is a preferably-tubular case, B, which may extend into the well to any extent, depending, of course, upon the length of the tubular case. This case is provided with a bottom, *b*, of the same material as the tube B, which is preferably of light sheet metal galvanized. The box above the ground is preferably square in cross-section, and has a door at one side. Near the side where the door is placed are two strips, *c c*, which are adapted to form guides for the frame supporting the articles to be lowered into the well. This frame is composed of three strips, *e e e'*, of suitable proportions, which are held together in the position shown by heads *d d'*, into which said strips are mortised. The side strips, *e e*, are provided upon the inside with staples *f* at regular intervals, and the back strip, *e'*, has a series of holes in the same plane with the staples. This construction is adapted to receive and support the device for

holding the articles which it is desired to keep cool. This device is preferably formed of wire, or some material which is light and strong, and is preferably composed of a ring, *g*, with cross-pieces *h h'*, the piece *h* crossing laterally near the front of the ring, and the piece *h'* extending from front to rear. The piece *h* has its projecting ends bent down to form a hook—one on each side—which engage with the staples in the side pieces, *e e*. The piece *h'* has only one projecting end, and this fits the holes in the back strip, *e'*, thus holding the device securely in position to receive and hold anything that may be placed upon it. It can be easily removed and adjusted to any other position, but preferably we provide a series of them, so that they may remain in their respective places, unless it is desired to remove them when the articles resting upon them are removed. From the bottom of the head *d'* are depending hangers *i i*—one upon each side—and journaled in bearings in these hangers are pulleys *k k*. Upon the side of the box A, fixed to a shaft, C, hereinafter described, is a pulley or drum, *l*, which carries the cord or cable, by which the frame supporting the articles is raised or lowered. One end of this cord is fixed to the drum, and is of sufficient length to allow of the frame being lowered to its greatest extent. The cord passes under the rollers or pulleys on the bottom of the frame heretofore described, and is secured to the wall of the box A, opposite to and on a line with the drum, which carries the other end. The shaft C, before mentioned, extends to the front of the box, where it has bearings in the center of a circular bracket, *m*. It is supported at the rear also by a suitable bracket. A handle, *n*, is placed upon the end of the shaft C, which extends through the circular bracket. The bracket or circular plate is provided with ratchet-faces around its outer face, and a spring-pawl in the handle engages with these faces, tending always to hold the shaft from turning, except when the pawl is out of connection with the ratchet. Whenever it is desired, therefore, to lower the frame, the pawl is thrown out of connection with the ratchet by pressure on the handle, and the weight of the frame will cause it to be lowered, being guided and supported by the cord upon which it rests. To raise the frame, it is only necessary to turn the handle

*n*, and the pawl, being in connection with the ratchet, will wind the cord upon the drum, and thus raise the frame.

Upon the top of the box A we place a removable cover, in order that it may be removed when it is desired to elevate the frame to its fullest extent.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. Combined with an adjustable refrigerator, the wire shelves, consisting of the ring *g* and cross-bars *h h'*, constructed substantially as described.

2. The frame consisting of the strips *e e* and *e'* and heads *d d'*, the said strips being provided with staples and holes, as described, in combination with the shelf, formed as described, and adapted to said strips, as set forth.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

HENRY CRAWFORD.  
JOHN M. LONG.

Witnesses:

BALFOUR COWEN,  
F. N. MARTIN.