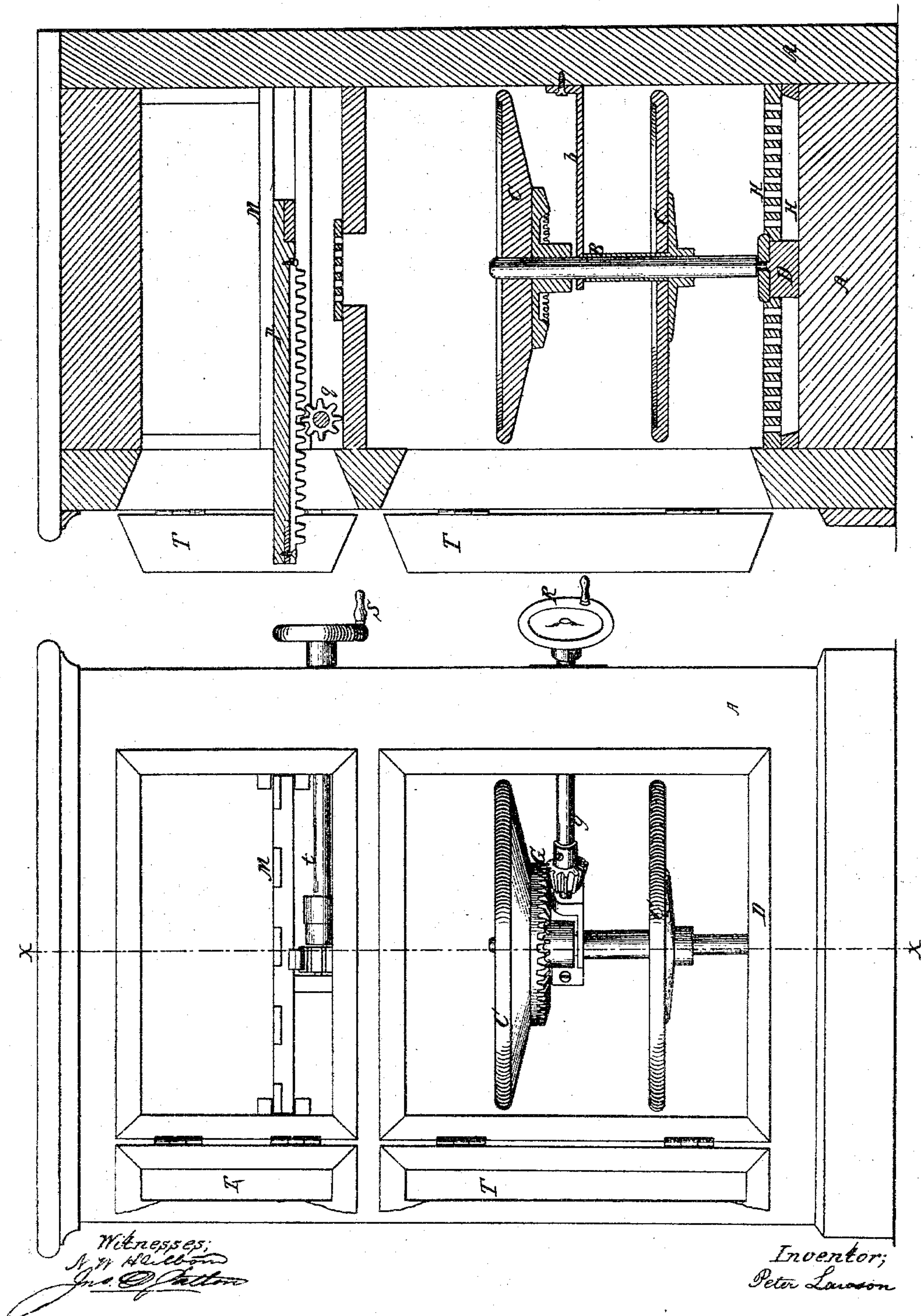


P. LAWSON.

Refrigerator.

No. 62,860.

Patented March 12, 1867.



UNITED STATES PATENT OFFICE.

PETER LAWSON, OF LOWELL, MASSACHUSETTS.

IMPROVEMENT IN APPARATUS FOR REFRIGERATING, COOLING, AND PRESERVING.

Specification forming part of Letters Patent No. 62,860, dated March 12, 1867.

To all whom it may concern:

Be it known that I, PETER LAWSON, of Lowell, in the county of Middlesex and State of Massachusetts, have made a new and useful Improvement in Apparatus for Preserving, Cooling, and Refrigerating, the same being applicable in the construction of safes, refrigerators, preserving-houses, and other similar structures; and I hereby declare the following to be a full and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 shows a front elevation of my invention applied to a refrigerator, safe, or preserving chamber or chambers; and Fig. 2, a vertical section through line *x x* of Fig. 1.

It is important to be able to introduce and remove articles from refrigerators, safes, preserving-houses, and the like without the necessity of going into them, and also to introduce and remove articles from any part in a convenient manner; and to this end my improvement and invention consist in constructing in such apparatus either a revolving table or movable shelf or platform, operated by suitable gearing or machinery moved from without, so as to bring the shelves, platforms, or other supporters of articles in the refrigerator or other structure in such a position that any article placed on the shelf, table, or platform may be easily reached through the door or opening.

In the drawings, A is the body of a square or rectangular refrigerator, safe, or preserving-chamber, divided into two apartments, one above the other, with doors T. In the lower apartment is a shaft, B, on which are fixed one or more round or other shaped tables, C. The shaft B is held upright by the bracket or support *b*, and the step and bearing D. On said shaft is fixed a bevel cog-wheel, G, which engages with a corresponding bevel-gear on shaft *g*, on the end of which is the crank-wheel R. By turning the crank R the platforms or tables C are made to revolve, and thus bring successively any portion of the table to the front part or opening in the refrigerator or other chamber. In the upper portion of the chamber is a platform or table, M, with a rack, *p*, which engages with

the pinion *q*, so as to move the table M back and forth by turning the crank S on the shaft *t*. Any convenient number of these movable tables or shelves may be placed in the body of the refrigerator, and they may be made solid or lattice form, as may be most convenient. The table M serves to introduce and hold the ice or other material.

I have shown a shelf or table moving back and forth in the upper portion, and revolving tables in the lower portion, of the cooling-chamber; but these may be interchanged, or only one and the same device may be used in both chambers.

Only two shelves or tables are shown on the shaft B; but the number may be increased or decreased, as required by the size of the apparatus or other condition.

For moving the shelves or tables I have described a common cog-gear; but any other equivalent machinery may be used instead.

My invention is especially useful in the construction of refrigerators, provision-safes, preserving-houses, and the like, since it enables one to introduce or remove articles without disturbing the air but slightly, and where preservative gases are used in such structures articles may be put in or removed without the necessity of entering the body of the preserving-chamber.

I have shown the bevel-gear for revolving the tables on the upper part of the shaft B; but for ordinary refrigerators I prefer to put them at the lower end of the shaft B, and for this purpose the shaft may be extended below the lattice floor H, so that the wheel *q* and shaft *g* shall occupy the space K beneath the floor H, and be thus removed from the main portion of the refrigerator.

I have shown the bevel-gearing for revolving the table; but this may be omitted by providing friction-pulleys or any kind of brake to hold the tables in any required position. In that case the shaft or tables are revolved by hand.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. An upright shaft with one or more tables or shelves, and suitable means to revolve the same, in combination with the interior of a

refrigerator, provision - safe, or preserving-house, or similar structure, substantially as herein set forth and described.

2. One or more shelves, M, rack *p*, and pinion *q*, in combination with the body of a refrigerator or similar structure, substantially as herein described and set forth.

3. The combination, in a refrigerator or like

structure, of one or more revolving tables, C, with one or more movable shelves, M, substantially as herein set forth and described.

PETER LAWSON.

Witnesses:

T. C. CONNOLLY,
THOS. CROPLEY.