No. 697,888. Patented Apr. 15, 1902.

H. ROBINSOHN.

REFRIGERATOR.

(Application filed Jan. 8, 1901.)

(No Model.)

Fig. 1.

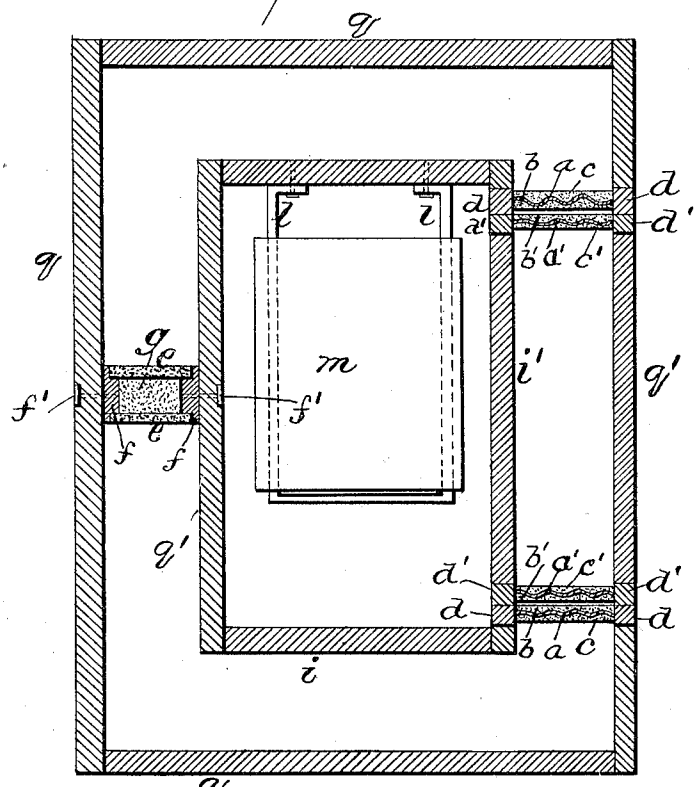
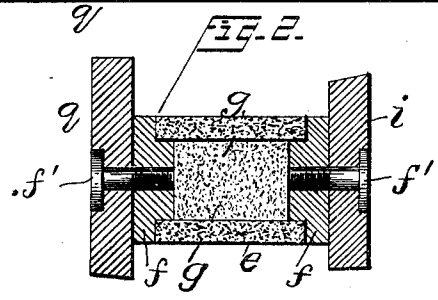


Fig. 2.



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REFRIGERATOR.

SPECIFICATION forming part of Letters Patent No. 697,888, dated April 15, 1902.

Application filed January 8, 1901. Serial No. 42,571. (No model.)

To all whom it may concern:

Be it known that I, HERMANN ROBINSOHN, chief engineer, a citizen of the German Empire, residing at Cauerstrasse 35, Charlottenburg, Germany, have invented certain new and useful Improvements in Refrigerators; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to refrigerators, and has for its object to provide a structure of this class in which are contained a double-walled case and double-walled door, the walls of which are connected only by non-conducting materials, the food-chamber being hermetically closed, non-conducting stays for increasing the stability of the case, and an ice-box suspended in the food-chamber for supporting the ice and receiving and retaining the water produced by the melting thereof.

With this object in view my invention consists in the improved construction, arrangement, and combination of parts hereinafter fully described and afterward specifically claimed.

In the accompanying drawings, Figure 1 is a vertical section through the case constructed in accordance with my invention. Fig. 2 is an enlarged sectional view of a connection or stay between the outer and inner walls.

Insulating-frames are arranged at the joints between the double walls i' q' of the door and the double walls i q of the case, respectively, which frames consist of asbestos pasteboard a, with insulating-paper e at the inside and impermeable asbestos texture or fabric b at the outside. Wooden strips d d d' d' are provided at the edges of the insulating materials, by means of which the insulating materials a b c a' b' c' are fastened to the walls q i of the case and to the walls q' i' of the door, respectively. The fastening of the insulating materials a b c and a' c' b' on the walls of the case and the walls of the door, respectively, by means of strips d d' may be effected, for example, in this way, to wit: The edges of the asbestos texture b are secured between the strips d d on the walls q i of the case, and the edges of the asbestos texture b' are secured between the strips d' d' on the walls q' i' of the door, after which spaces o o' between the outer walls and the inner walls of the case and the outer walls and inner walls of the door, respectively, are filled with any suitable non-conducting material. (Not shown.)

r is the food-chamber of the refrigerator, which is provided with an ice-box m, suspended by means of the brackets l. If the refrigerator is closed, it is impossible for the frigidity to find a convenient way of escape to the outside, as the insulating layer is nowhere interrupted.

To increase the stability of the case, non-conducting stays are properly secured between the outer and inner walls of the case, as shown in Fig. 2 on an enlarged scale. The stays are made of thick asbestos pasteboard e, supported by wooden strips f, which are fastened by screws f' to the outer and inner walls q i of the case, the space between strips e and f being filled with non-conducting material g.

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

1. A refrigerator provided with a double-walled case having a suitable door-opening, a wooden frame secured to each wall around said opening, a non-conducting layer connecting the wooden frames of the inner and outer walls and surrounding the door-opening, a double-walled door adapted to close the door-opening, a wooden frame surrounding each wall of the door, and a non-conducting layer connecting and secured to said wooden frames of the door-walls and surrounding the space between said door-walls, substantially as described.

2. A refrigerator provided with a double-walled case having a suitable door-opening, a wooden frame secured to each wall around said opening, a non-conducting layer connecting the wooden frames of the inner and outer walls and surrounding the door-open-

ing, and a non-conducting stay for the walls, comprising opposite wooden strips secured to the inner and outer walls, strips of asbestos board connecting said strips, and non-conducting packing in the space between the wood and asbestos strips, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

HERMANN ROBINSOHN.

Witnesses:
HENRY HASPER,
WOLDEMAR HAUPT.