

H. C. CAIN.

Improvement in Refrigerators.

No. 126,784.

Patented May 14, 1872.

Fig. 1.

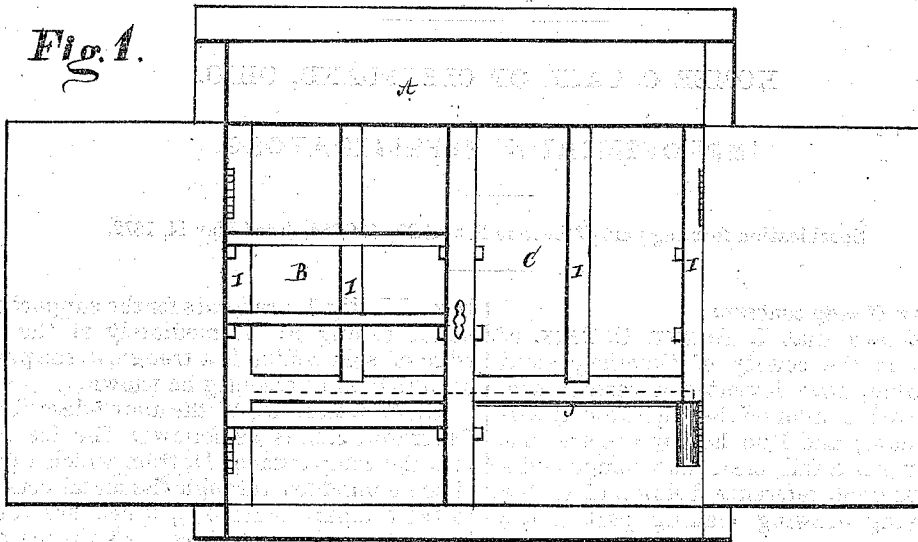


Fig. 2.

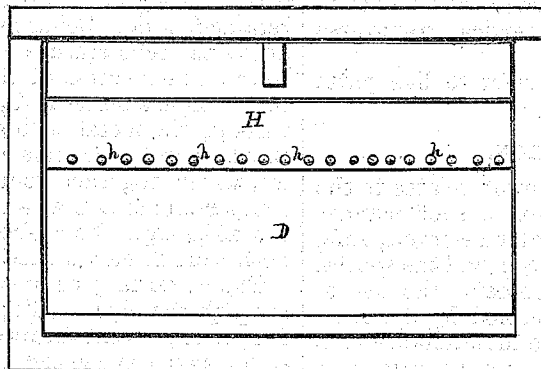
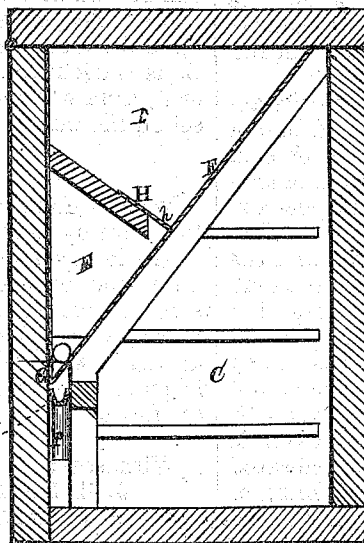


Fig. 3.



Witnesses.
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HOMER C. CAIN, OF CLEVELAND, OHIO.

IMPROVEMENT IN REFRIGERATORS.

Specification forming part of Letters Patent No. 126,784, dated May 14, 1872.

To all whom it may concern:

Be it known that I, HOMER C. CAIN, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and Improved Combined Refrigerator, Reservoir, and Safe; and I do hereby declare that the following is a full, clear, and complete description thereof, reference being had to the accompanying drawing making part of the same.

Figure 1 is a front view of the reservoir and refrigerator. Fig. 2 is a view of the inside from the top. Fig. 3 is a vertical transverse section.

Like letters of reference refer to like parts in the several views.

SPECIFICATION.

The nature of this invention relates to the construction of a refrigerator in such manner as that a combined cold-water reservoir, safe, and refrigerator are produced; and the special object of which is to economise the use of ice by making the water formed by the melting ice to contribute to the maintenance of a low degree of temperature in the safe, and which water is collected in a reservoir within the refrigerator, and from which it may be drawn for ordinary uses. Of the abovesaid refrigerator, &c., the following is a more full and complete description.

In Fig. 1, A represents the case of the apparatus, which is constructed of wood and in four compartments, B, C, D, and E, of said compartments B C are for the reception of articles for safe keeping, whereas D is the ice-box, and E the reservoir. The bottom or floor F of the ice-box and reservoir is of metal, and the sides there are lined with the same material. On examination of Fig. 3 it will be seen that said bottom F forms an inclined plane, reaching from the top of one side of the case down near to the bottom of the opposite side, and forms therewith an angle, G, Fig. 3, the bottom of the reservoir, and which reservoir is separated from the ice-box by the perforated removable partition H, which is the ceiling of the reservoir and part of the floor of the ice-

box. I I, Fig. 1, are joints for the support of the metal ceiling F. Immediately at the lower edge of said ceiling is a trough, J, the purpose of which will presently be shown.

The practical use of the above-described refrigerator, &c., is as follows: The ice is put into the compartment D, from which the cold is communicated through the metal ceiling F, to the compartments B C, which are thereby kept at a low temperature. As the ice melts, the water therefrom flows down into the reservoir through perforations at *h*, and is there retained, which, being but one or two degrees above the temperature of the ice, contributes to the continuation of the low temperature of the compartments B C, which it transmits through the metal ceiling F. The utilizing of the cold water in this way saves the use of ice, which together therewith, keep the two compartments B C at a temperature nearly as low as though the ice-box and the reservoir both were filled with ice.

The water may be drawn from the reservoir through the pipe A', Fig. 2, when needed for use, or to prevent the reservoir from becoming so full as to come in contact with the ice above.

By this means a supply of ice-cold water can be had at all times for any needful purposes. The moisture that may be deposited upon the metal-ceiling of the compartments B C, as it trickles down, drops into the conductor J, from which it may be collected in a vessel on the inside, from the pipe P.

Claim.

What I claim as my invention, and desire to secure by Letters Patent, is—

The inclined partition or ceiling F, forming a division between the ice-chamber and the safe or cold chamber C, and perforated removable partition H, when constructed and arranged with relation to the walls of a refrigerator, in the manner and for the purpose set forth.

HOMER C. CAIN.

Witnesses:

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