

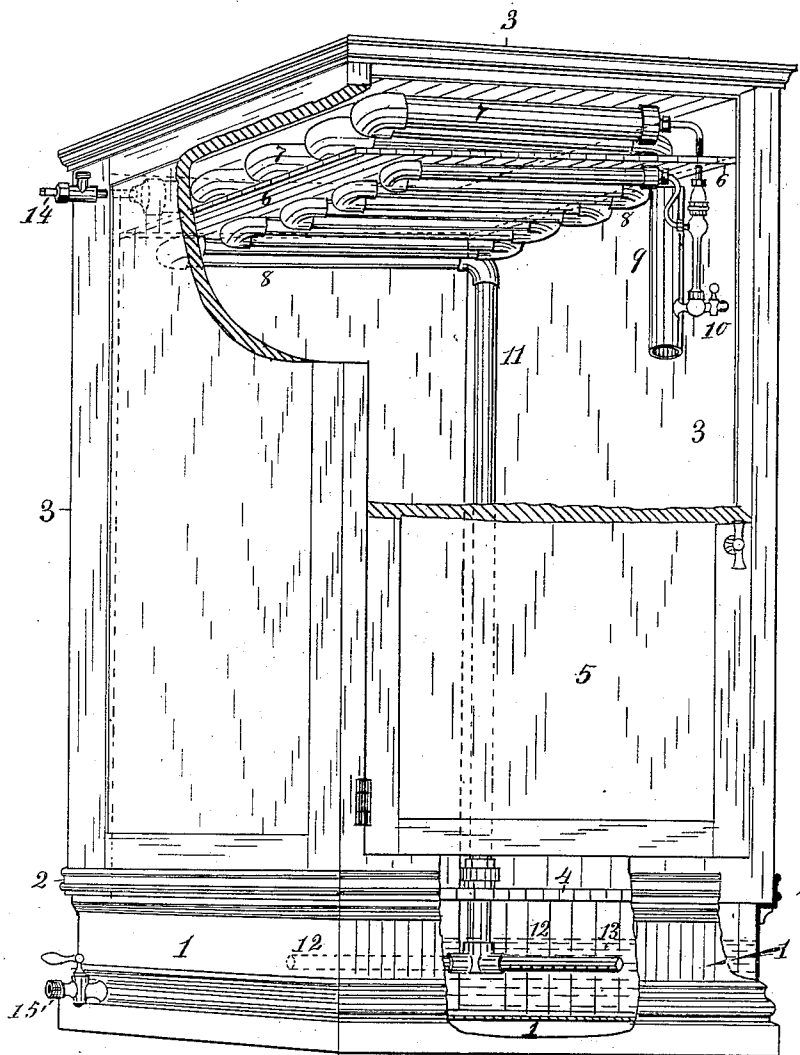
(No Model.)

J. E. HOLMES.

COMBINATION REFRIGERATING SAFE.

No. 357,830.

Patented Feb. 15, 1887.



WITNESSES

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COMBINATION REFRIGERATING-SAFE.

SPECIFICATION forming part of Letters Patent No. 357,830, dated February 15, 1887.

Application filed August 31, 1886. Serial No. 212,320. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH ELLICOTT HOLMES, a citizen of the United States, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Combination Refrigerating-Safes; 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.

My invention relates to improvements in refrigerating-safes used for the preservation of meats, fruits, and other perishable substances.

The object of my invention is to provide a refrigerating-safe having a gas-holder that can be filled without removal and without breaking its connection with the expansion-coil, and having a water or absorbing chamber constituting a base for the refrigerating-chamber that can be emptied and refilled without removal; and it consists in the combination herein pointed out.

In order that the nature and intent of my invention may be made more clear and better understood, reference is had to the accompanying drawing, the figure representing a refrigerating-safe in perspective, partly in section, made in accordance with my invention.

Figures of reference indicate the different parts contained in the view.

1 1 1 indicate the base, which forms a reservoir for the absorbing liquids, (preferably made in metal,) and constitutes the base of the structure, having formed on the top a flange or socket, 2 2; 3 3 3, the refrigerating safe or chamber, mounted on the base 1 1 1 and seated in the socket 2 2, which can be hermetically sealed, forming a cover to the reservoir-base.

4 is the floor, and 5 the door, of the safe.

6 6 is a shelf dividing off a small portion of the upper part of the safe, for a purpose hereinafter explained.

7 7 is the reservoir to contain the volatile gases under pressure, occupying the small chamber formed by the shelf 6 6. This reservoir is preferably made of strong metallic pipe bent or formed in the manner shown in the drawing, or in a coil having a capacity to contain a sufficient amount of compressed or liquefied gas for any given number of days that may be required; or it may be in the form of

narrow cylindrical holders having a connection with the receiving and discharge pipes.

8 8 is the refrigerating-coil as ordinarily arranged in the top of the main chamber of the safe, communicating with the reservoir 7 7 by means of the governor 9, which can be regulated by a valve, 10, extending through the side of the safe, said governor controlling the temperature within the safe. This pressure governor and valve may be of any ordinary construction; but I prefer to use the one described in my application No. 209,711, filed July 31, 1886.

11 is a vertical pipe connecting the refrigerating-coil 8 8 with a distributor, 12, arranged in the reservoir-base 1, for discharging the expanded gases under the surface of the absorbing liquid 13 after it has performed its office in the refrigerating-chamber.

14 is a valve by which connection is made for supplying the reservoir 7 7 with compressed or liquefied gases, and 15 a valve for filling or discharging the base 1 1.

I am aware that refrigerating cars and vessels having portable gas-holders, refrigerating-coils, and absorbing-vessels are well known, and my claim is therefore limited to the novel combination hereinafter pointed out.

I claim—

The described refrigerating-safe, having a holder, 7, for condensed gases, an inlet-pipe, 14, furnished with valve and coupling outside of the safe, and connected to one end of said holder, an expansion-coil, 8, connected to the other end of said holder, a governor interposed between the holder and expansion-coil, a water tank or absorber, 1, constituting a base for the safe, an outlet-pipe, 15, from the absorber, provided with a valve and coupling outside the safe, and a distributor connecting the absorber with the expansion-coil, the gas-holder, expansion-coil, governor, absorbing-chamber, distributor, and connections being all inclosed in and fixtures of the safe, substantially as and for the purposes set forth.

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

JOSEPH E. HOLMES.

Witnesses:

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