J. J. BAILEY.

Improvement in Refrigerators.

No. 130,271. Patented Aug. 6, 1872.

Fig. 1.

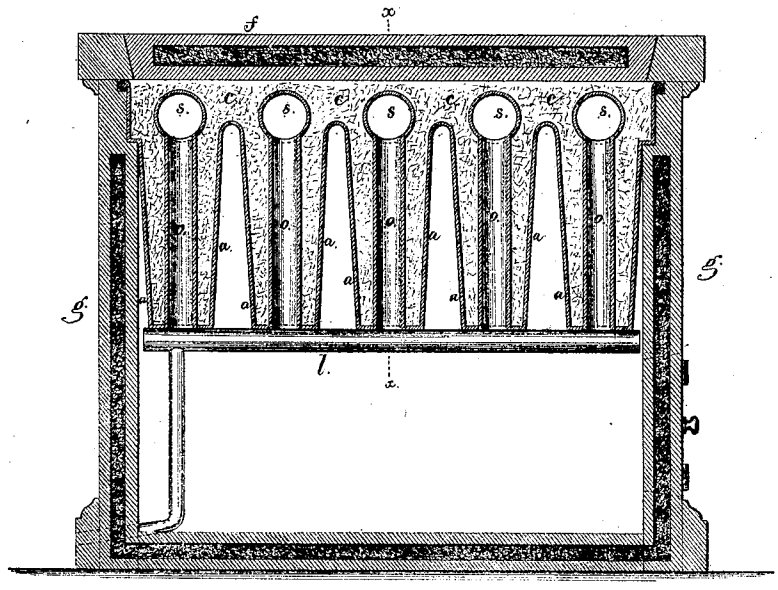
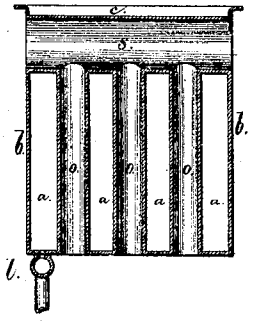


Fig. 2.



Witnesses.

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A.M. PHOTO-LITHOGRAPHIC CO. N.Y. (OSBORNE'S PROCESS.)

UNITED STATES PATENT OFFICE.

JOHN J. BAILEY, OF NEW YORK, N. Y.

IMPROVEMENT IN REFRIGERATORS.

Specification forming part of Letters Patent No. 130,271, dated August 6, 1872.

Specification of Improvement in Refrigerators, invented by JOHN J. BAILEY, of the city and State of New York.

In this refrigerator there are pockets arranged side by side, and connected at the top to a common receptacle for crushed ice and salt, and through the pockets there are air-tubes, the whole being made of sheet metal, and adapted to insertion in a box or room to cool the air in the same, and this is effected by the large extent of surface and the circulation of the atmosphere through the said tubes. The refrigerating-chamber does not become damp, because the vapors from the ice do not come into contact with the atmosphere of the chamber.

In the drawing, Figure 1 is a vertical section transversely of the range of pockets, and Fig. 2 is a vertical section through the air-tubes at the line *x x*.

The pockets are made of the side plates *a* and end plates *b*, forming a range of pockets that open at their upper ends into a common receptacle, *c*, for the crushed ice and salt. This may be supplied through the opening *f* in the box *g*, where this improved device is in a portable refrigerator, but when employed with a room the receptacle *c* should be deeper, so that the ice may be entered at the end instead of the top. A pipe at *l* connects the lower ends of the pockets to allow the watery portion to be drawn off whenever required. The vertical pipes *o o* form a range in each pocket, and open through the bottoms of the pockets, and at their upper ends pass into the transverse pipes *s s*, that open at their ends through the end plates *b*, so that in cooling the contents of the box or chamber there is a circulation of air through the pipes *s* and tubes *o* down into the refrigerator, and this is maintained continuously, so that the required temperature can be obtained according to the proportion of salt and crushed ice.

I claim as my invention—

The air-circulating and refrigerating tubes *o s*, in combination with pockets *a b*, as and for the purposes set forth.

Signed by me this 17th day of July, 1872.

JOHN J. BAILEY.

Witnesses:

GEO. T. PINCKNEY,

CHAS. H. SMITH.