(No Model.)

G. H. HURD.

REFRIGERATOR.

No. 254,976. Patented Mar. 14, 1882.

Fig. 1.

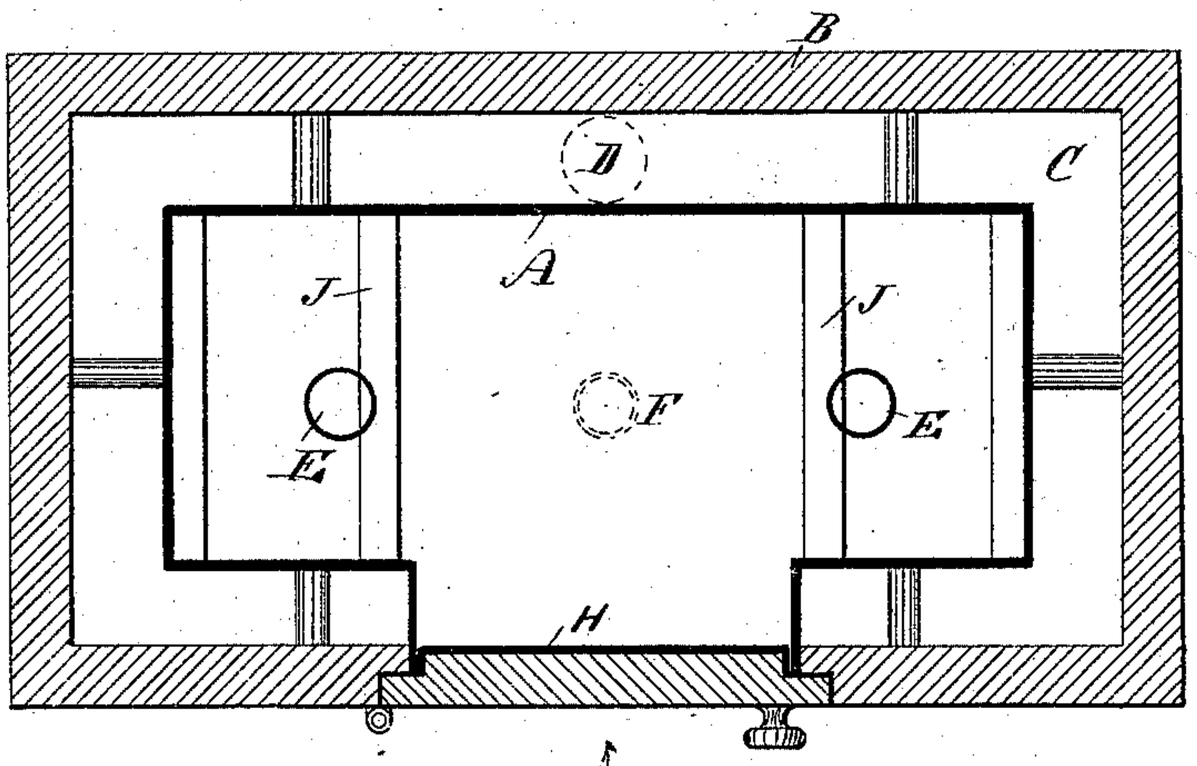
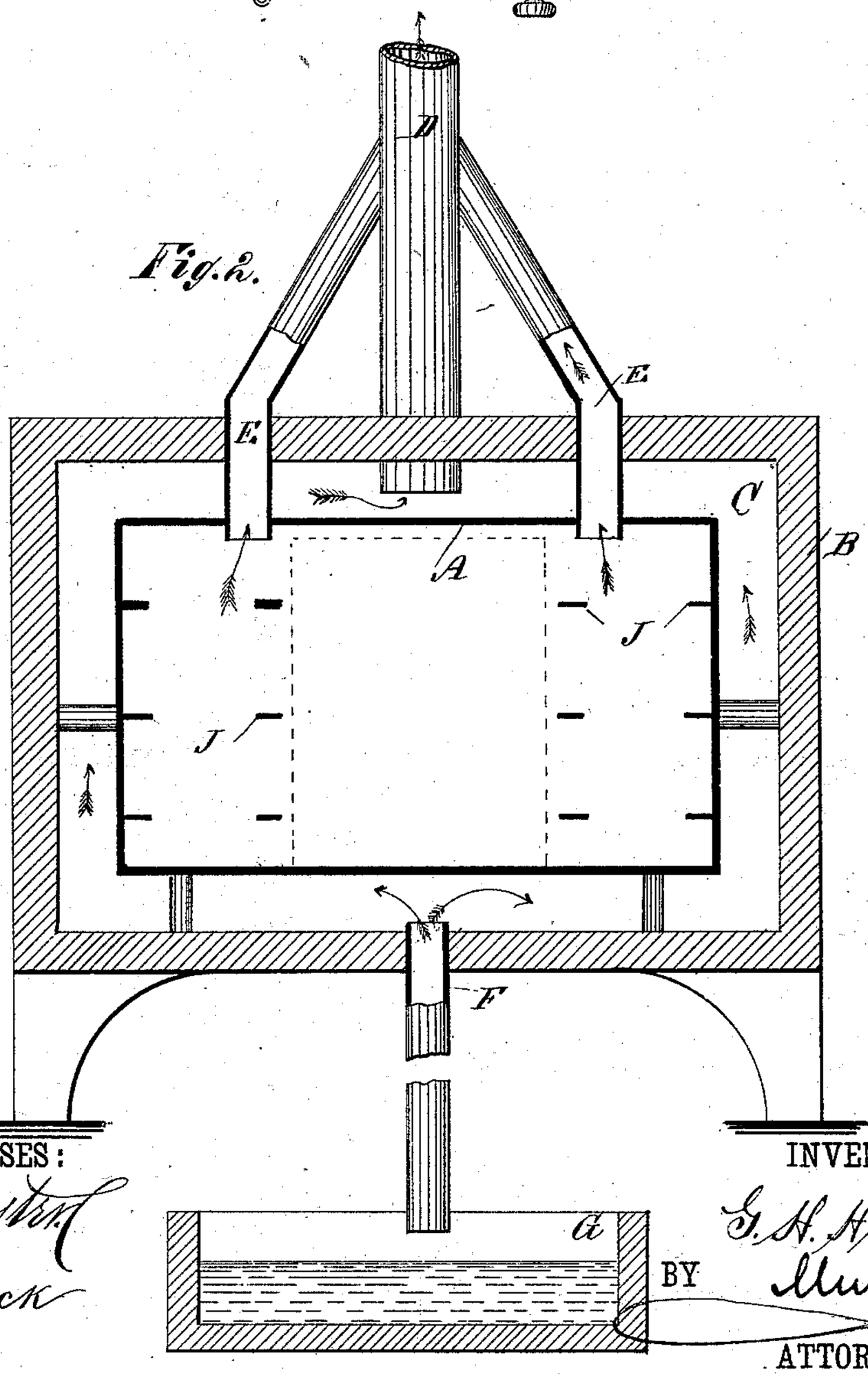


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

GEORGE H. HURD, OF KIOWA, KANSAS.

REFRIGERATOR.

SPECIFICATION forming part of Letters Patent No. 254,976, dated March 14, 1882.

Application filed August 2, 1881. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. HURD, of Kiowa, in the county of Barbour and State of Kansas, have invented a new and Improved Refrigerator, of which the following is a specification.

The object of my invention is to provide a new and improved refrigerator or milk-cooler, so constructed that the articles contained therein are cooled by a current of cooled air circulating around the cooling-box.

The invention consists in a sheet-metal box contained in a larger wooden box, from the top of which a draft-pipe leads to the roof of the house, and is provided with two branch pipes leading from the inner metal box into the draft-pipe. A pipe extends from the bottom of the outer box down to a flat tank containing water and located in the cellar of the building, the lower end of this pipe being located a short distance above the surface of the water, so that the air that enters into this pipe will be moistened and cooled.

In the accompanying drawings, Figure 1 is a horizontal sectional view of my improved refrigerator or milk-cooler. Fig. 2 is a longitudinal sectional elevation of the same.

Similar letters of reference indicate corresponding parts.

A sheet-metal box, A, is surrounded by a larger wooden box, B, whereby an air-space, C, is formed around the box A. A pipe, D, leads from the top of the box B to the roof of the building containing the refrigerator or milk-cooler, and projects a short distance above this roof, whereby a strong draft is created. This pipe D is provided with two branch pipes, E, leading into the top of the box A. A pipe, F, projects downward from the bottom of the box B into a flat vessel, G, located in the cellar and containing water, the lower end of the pipe F being a short distance from the surface of the water, so that all the air that enters into the pipe F will be moistened, cooled, and refreshed.

The box A is provided with a door, H, and with a number of slats, J. As there is a strong draft in the pipe D, the air is drawn out of the air-space C through this pipe D, and is replaced by fresh, cool, and moistened air, entering the box B through the pipe F, thus causing a circulation of cool and moistened air around the box, and thereby cooling the articles contained in this box A. Any warm or hot or foul air, &c., that is formed in the box A passes off through the pipes E E and D.

If the pipes D, E, and F are removed and the apertures in the boxes closed, the air-space surrounding the box A will prevent the articles in the box A from freezing if the external temperature does not drop too low.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. In a refrigerator or milk-cooler, the combination, with the interior box, A, and the larger exterior box, B, of the draft-pipe D, leading from the exterior box, B, and the branch pipes E E, leading from the interior box, A, into the draft-pipe D, substantially as herein shown and described, and for the purpose set forth.

2. In a refrigerator or milk-cooler, the combination, with the interior box, A, and the exterior box, B, of the draft-pipe D, the branch pipes E E of the same, the pipe F, and the tank G, substantially as herein shown and described, and for the purpose set forth.

GEORGE HENRY HURD.

Witnesses:
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