

S. E. CONDON.

Improvement in Refrigerators.

No. 132,443.

Patented Oct. 22, 1872.

Fig. 2

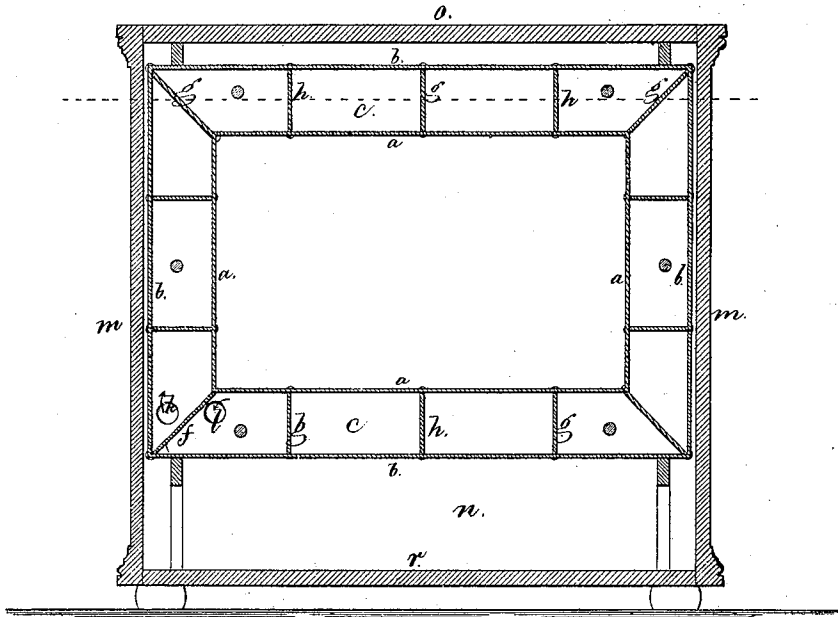
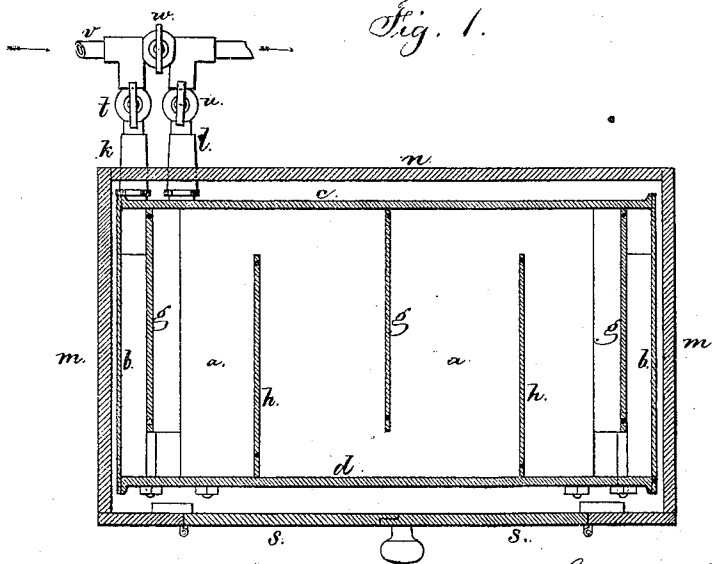


Fig. 1.



Witnesses,

Chas. A. Smith
Geo. D. Amstutz

Inventor,

Samuel E. Condon,
Lemuel W. Gerrill
att'y.

UNITED STATES PATENT OFFICE.

SAMUEL E. CONDON, OF BROOKLYN, E. D., NEW YORK.

IMPROVEMENT IN REFRIGERATORS.

Specification forming part of Letters Patent No. **132,443**, dated October 22, 1872.

To all whom it may concern:

Be it known that I, SAMUEL E. CONDON, of Brooklyn, E. D., in the county of Kings and State of New York, have invented an Improvement in Refrigerators, of which the following is a specification:

Refrigerators and coolers have been made of a box containing the articles to be cooled immersed in a stream of running water. Milk, butter, &c., have been cooled in this manner. The box has also been made double and the water supplied and led away by pipes.

My invention relates to a refrigerator made with a double water-box and alternating partitions for directing the water and compelling a circulation throughout the entire box; I also make use of an arrangement of connecting-cocks, whereby the water flowing from any suitable head or supply can be directed through the refrigerating-box or allowed to flow past without entering such box.

In the drawing, Figure 1 is a sectional plan of the refrigerator and pipes, and Fig. 2 is a vertical section of the same.

The water-chamber is, by preference, quadrangular and made with an inner metal case, *a*, and outer metal case *b*, united by and to the heads *c* and *d* by bolts and rivets or any suitable attaching device. Before the heads *c* and *d* are secured in place the partitions *f g h* are introduced and properly secured. The partition *f* extends all the way across, between the heads *c d* and cases *a b*, so as to prevent water supplied by the pipe *k* passing away by the pipe *l*, except after circulating around in the quadrangular water-space between *a b c d*, and the partitions *g* start from the head *c* and do not reach to the head *d*, and the partitions *h* start from the head *d* and do not reach to the head *c*, and they alternate with the partitions *g*, as shown in Fig. 1; thereby the passage for

the water is tortuous or back and forth, so as to insure an equal cooling action in all parts of the refrigerator, resulting from the water as it flows through the water-box, that is made by the said cases *a b* and heads *c d* with the intervening divisions or partitions *f g h*. The wooden inclosure or refrigerator-box is made with sides *m*, back *n*, top *o*, bottom *r*, and doors *s*, and there is a chamber for the reception of articles to be cooled within the quadrangular water-box, and also below the same. The supply-pipe *k* has a cock, *t*, and the pipe *l* a cock, *u*, and connected with these is the water-pipe *v* with a cock, *w*, between the connections.

When the cock *w* is closed and the cocks *t u* open, the water from the pipe *v* is compelled to travel the circuit of the refrigerator or cooling box; but if the cock *w* is open the water will flow by the more direct course, and the cocks *t* and *u* may be closed to exclude water from the refrigerator and allow the same to be emptied by a water cock or plug.

I claim as my invention—

1. The partitions *g h* applied to and combined with the cases *a b*, heads *c d*, partitions *f*, and pipes *k l*, and arranged in the manner specified to form a cooler or refrigerator, as set forth.

2. The cocks *t u w* and pipes *k l v* arranged, as shown, and combined with the cooler or refrigerator composed of the cases *a b*, heads *c d*, and partitions *f g h*, as and for the purposes set forth.

Signed by me this 18th day of September, 1872.

SAMUEL E. CONDON.

Witnesses:

GEO. T. PINCKNEY,
CHAS. H. SMITH.