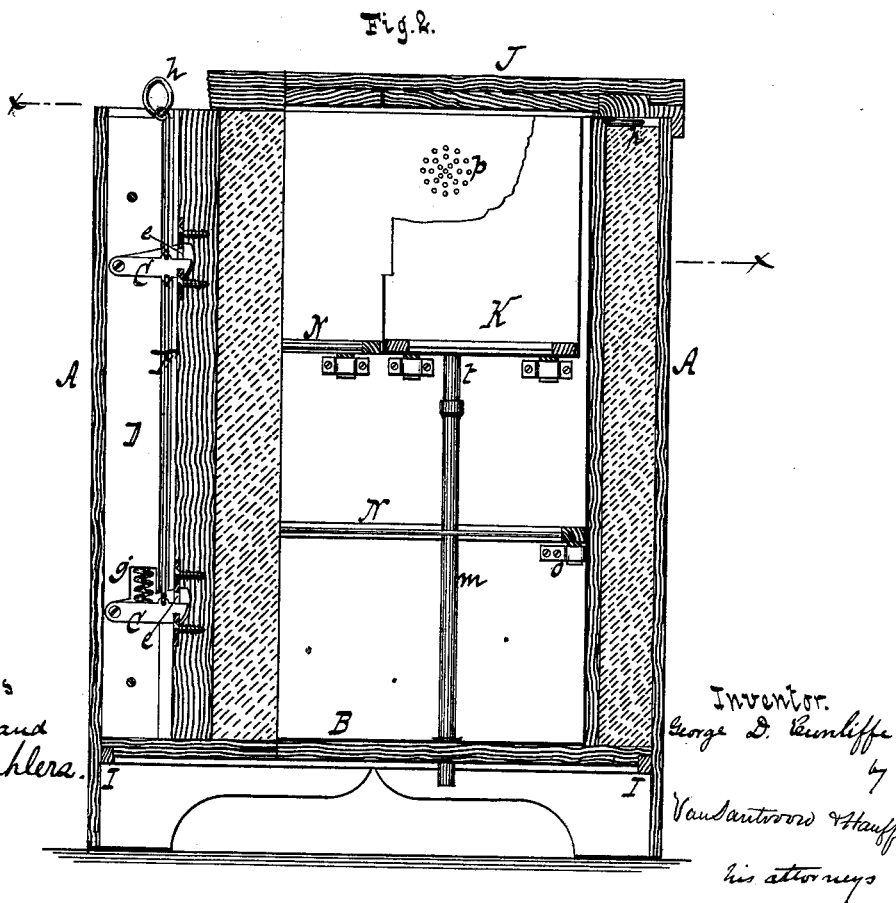
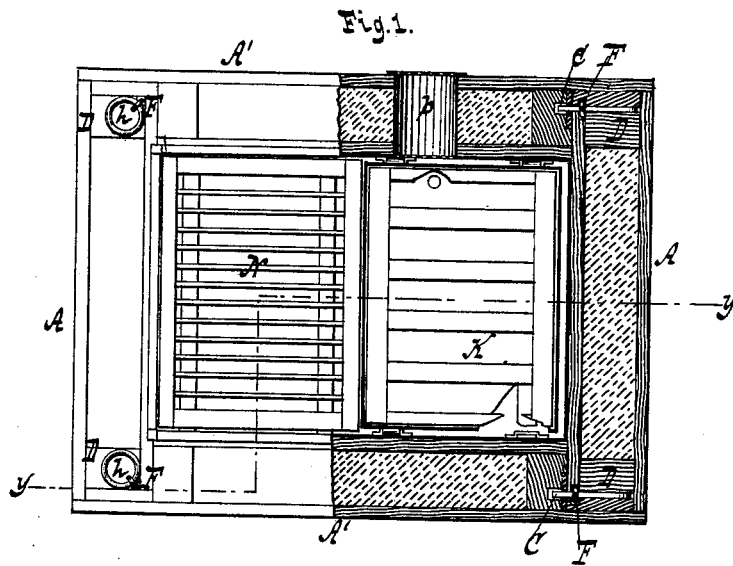


G. D. CUNLIFFE.
Refrigerator-Box

No. 200,982.

Patented March 5, 1878.



UNITED STATES PATENT OFFICE.

GEORGE D. CUNLIFFE, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN REFRIGERATOR-BOXES.

Specification forming part of Letters Patent No. 200,982, dated March 5, 1878; application filed January 19, 1878.

To all whom it may concern:

Be it known that I, GEORGE D. CUNLIFFE, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Refrigerators, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a horizontal section of my refrigerator in the line *x x*, Fig. 2. Fig. 2 is a vertical section in the line *y y*, Fig. 1.

Similar letters indicate corresponding parts.

My invention consists in the combination, in a refrigerator box or case the sides of which are detachable from each other, and constructed with double walls, of catches which are located in said double walls, and serve to hold the sides together, with vertical rods for operating the catches, so that the refrigerator box or case can be taken apart to facilitate transportation of the article, and at the same time the catches and their operating-rods are protected against injury.

In the drawing, the letters A A' designate the sides of my box, and B is the bottom thereof. I construct the sides A A' with the usual double walls, and make the same detachable from each other. The letter C designates catches, serving to hold the sides of the box together. These catches have the form of hooks, and are arranged in sets, each set being pivoted in uprights D, which are placed in the opposite ends of the sides A, and between the double walls composing such sides, as shown in Fig. 1. Said catches, moreover, are arranged to project on the inner surface of the sides A, to which they are applied, and engage with slots *e* formed in metallic plates, which are secured to the ends of the sides A'.

Each set of catches, or those in each of the uprights D, are placed in a corresponding vertical plane, and connected to a vertical rod, F, passing through or alongside of the respective upright.

The lowermost catch C of each set is connected to the lower end of the rod F, and is subjected to the action of a spring, *g*, which has a tendency to force the said lower catch, as well as the rod F and the upper catch, downward, thus locking both catches.

The upper ends of the rods F are flush, or

nearly so, with the upper edges of the sides A or A' and to such ends of the rods are connected rings *h*, by which they can be conveniently pulled upward.

To a suitable portion of each of the sides A or A' is secured a sill, I, and on these sills I place loosely the bottom B.

In putting the parts of my box together, I first connect three of the sides A or A', then slide the bottom B into place, and then attach the remaining or fourth side, while, for the purpose of detaching the parts, it is only necessary to disengage the catches C.

By making the parts of my box detachable from each other, its transportation is materially facilitated, while by arranging the catches in the manner shown they are not liable to become injured, and are concealed from view.

In connection with my box I use a detachable lid, J, and a removable ice-pan, K, this pan, moreover, being of such a size that an air-space is formed around it, as shown. From the bottom of the pan K projects a discharge-pipe, *l*, which telescopes with a pipe, *m*, rising from the bottom of the box.

In my box are also arranged grates N, which, as well as the ice-pan K, are supported by detachable slats *o*, the pan being also partly supported by flanges formed on its upper edge.

One of the sides A or A' is provided with a channel, *p*, for the circulation of air, and between the double walls composing each of said sides I place a filling of hair, felt, or any other suitable material.

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

The combination, in a refrigerator-box the sides of which are detachable from each other, and constructed with double walls, of catches which are located in said double walls, and serve to hold the sides together, and vertical rods for operating the catches, substantially as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand and seal.

GEORGE D. CUNLIFFE. [L. S.]

Witnesses:

E. F. KASTENHUBER,
CHAS. WAHLERS.