

C. HYMERS.

COAL-BOX.

No. 193,336.

Patented July 24, 1877.

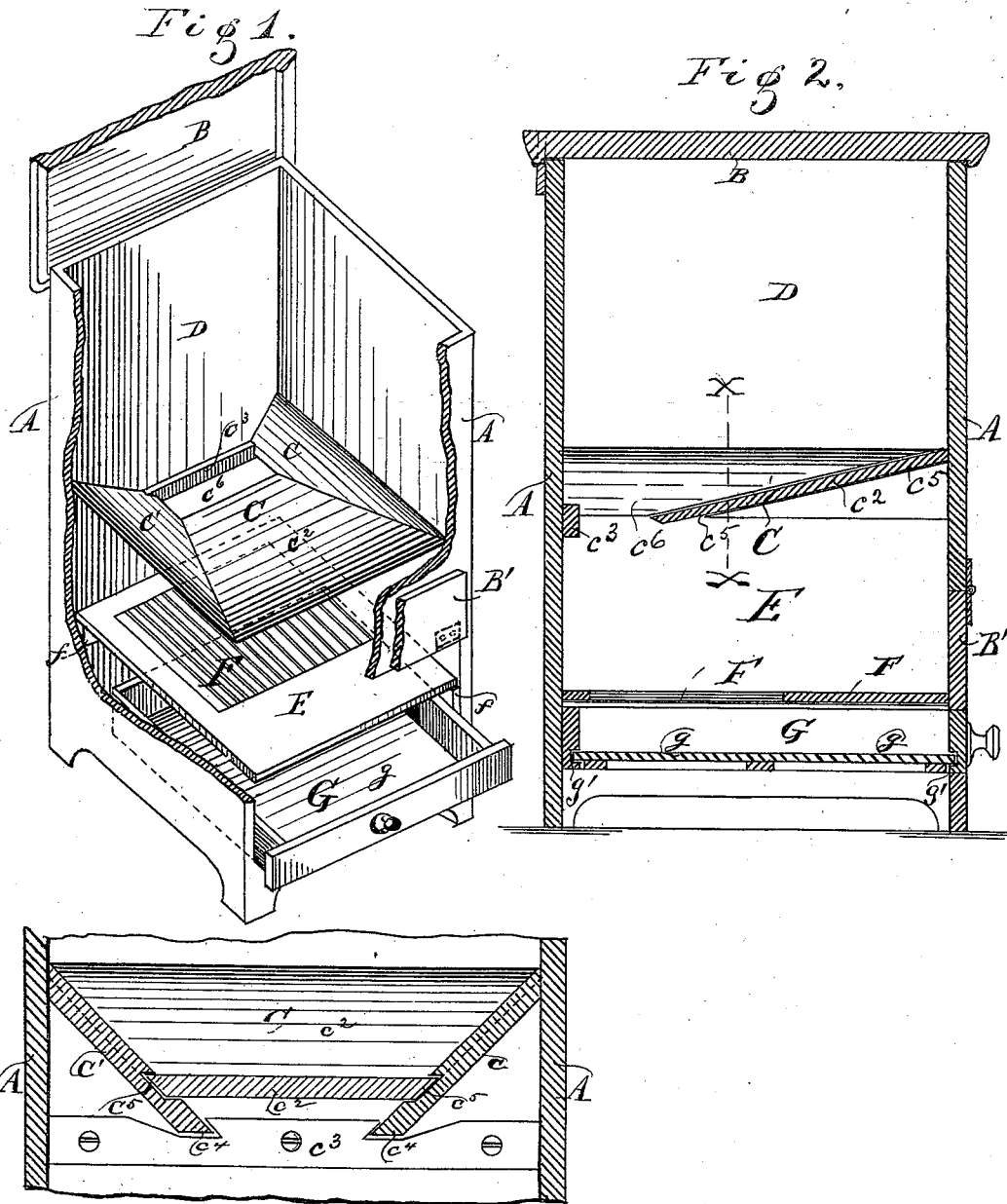


Fig 3.

Witnesses

J. W. Herthel.
Chas Herthel

Inventor,

Christopher Hymer

UNITED STATES PATENT OFFICE.

CHRISTOPHER HYMERS, OF ST. LOUIS, MISSOURI.

IMPROVEMENT IN COAL-BOXES.

Specification forming part of Letters Patent No. 193,336, dated July 24, 1877; application filed February 5, 1877.

To all whom it may concern :

Be it known that I, CHRISTOPHER HYMERS, of St. Louis, in the county of St. Louis and State of Missouri, have invented an Improved Coal-Box, of which the following is a specification :

This invention is a coal-box more specially adapted for household purposes, to facilitate the storing, handling, and use of coal or fuel.

The nature of my invention consists in the peculiar construction of the parts and their combination to achieve the advantages, all of which will hereinafter more fully appear.

Of the drawing, Figure 1 is a perspective view of my cabinet, the parts broken away being to show the interior construction. Fig. 2 is a sectional elevation of my cabinet. Fig. 3 is a detail section on line *x x* of Fig. 2.

A represents the housing. B is a door hinged to the housing at top, for entering the fuel in the box or cabinet. B' is the front door, to control the discharge or outlet. C is the feed-hopper, dividing the fuel-chamber D from the discharge-chamber E. (See Figs. 1 and 2.) The feed-hopper consists of the side pieces *c c'* and the bottom piece *c''*. *c''* are the supports, fastened to the opposite sides of the cabinet, to retain the side pieces in position. For this purpose the supports *c''* have a mortise at *c''*, (see Fig. 3,) in which the lower corners of the side pieces simply rest, their upper edges resting against the sides of the housing. The side pieces *c c'* therefore assume an inclined position, are easily removed and replaced, and require no permanent fastening. Further, I provide in each of the side pieces an inclined groove, *c''*. (See Figs. 2, 3.) The bottom piece *c''* is shaped to suit the grooves *c''*, and rest in same, while its upper edge rests against the housing, and thus said bottom piece is also supported in an inclined position, and in like detachable manner.

This construction of the parts composing the feed-hopper C has the following advantages: The weight of the coal, &c., bears upon said hopper parts and tends to wedge same the more tightly in the grooves and mortises. The inclined position of the hopper parts facilitates the dropping of the coal. The hopper parts, more especially, being detachable, can be placed upright against the interior of the housing, or entirely removed out of same, leaving the chambers D and E serviceable for other packing purposes.

c'' is the feed-opening. F is a grate bottom, also removable, as it simply rests upon the supports *f*, which are secured to the opposite sides of the cabinet. (See Fig. 1.)

When used the bottom F forms the bottom proper for the chamber E. The coal, &c., drop through the feed-opening *c''* upon the grate bottom F. The door B' is opened and the operator shovels the coal from off the bottom F for use. The siftings from the coal drop through the grate, and can be collected in a drawer, G, at the bottom. (See Figs. 1 and 2.)

In case lump coal is used, the grate-bottom F can be interchanged with the solid bottom *g* (see Figs. 1 and 2) of the drawer.

To accomplish the interchange of F and *g* the opposite sides of the drawer has mortises (see *g'*, Fig. 2) which extend the whole length of the sides.

The solid bottom *g* is made to suit the dimensions of the drawer, and so as to readily slide in and out of its grooves *g'*. Likewise the grate bottom F is fitted to slide in and out of said grooves. This interchange of the bottoms F and *g* is to accommodate the kind of coal used, and to obviate the annoyances arising from the dust and siftings from the coal.

What I claim is—

1. The feed-hopper C, consisting of the side pieces *c c'*, having grooves *c''*, the bottom piece *c''*, the supports *c''*, having mortises *c''*, in combination with a cabinet, A, as and for the purposes set forth.

2. The grate-bottom F, the supports *f*, in combination with the feed-hopper C, and cabinet A, having the drawer G, as and for the purposes set forth.

3. The feed-hopper C, consisting of the side pieces *c c'*, having inclined grooves *c''*, the bottom pieces *c''*, the supports *c''*, having mortises *c''*, the grate bottom F, the drawer G, having removable bottom *g*, all said parts in combination with a cabinet, A, as and for the purposes set forth.

In testimony of said invention I have hereunto set my hand.

CHRISTOPHER HYMERS.

Witnesses:

WILLIAM W. HERTHEL,
JOHN W. HERTHEL.