

W. F. BARTLETT.

Foot Warmer.

No. 59,810.

Patented Nov. 20, 1866.

Fig. 1

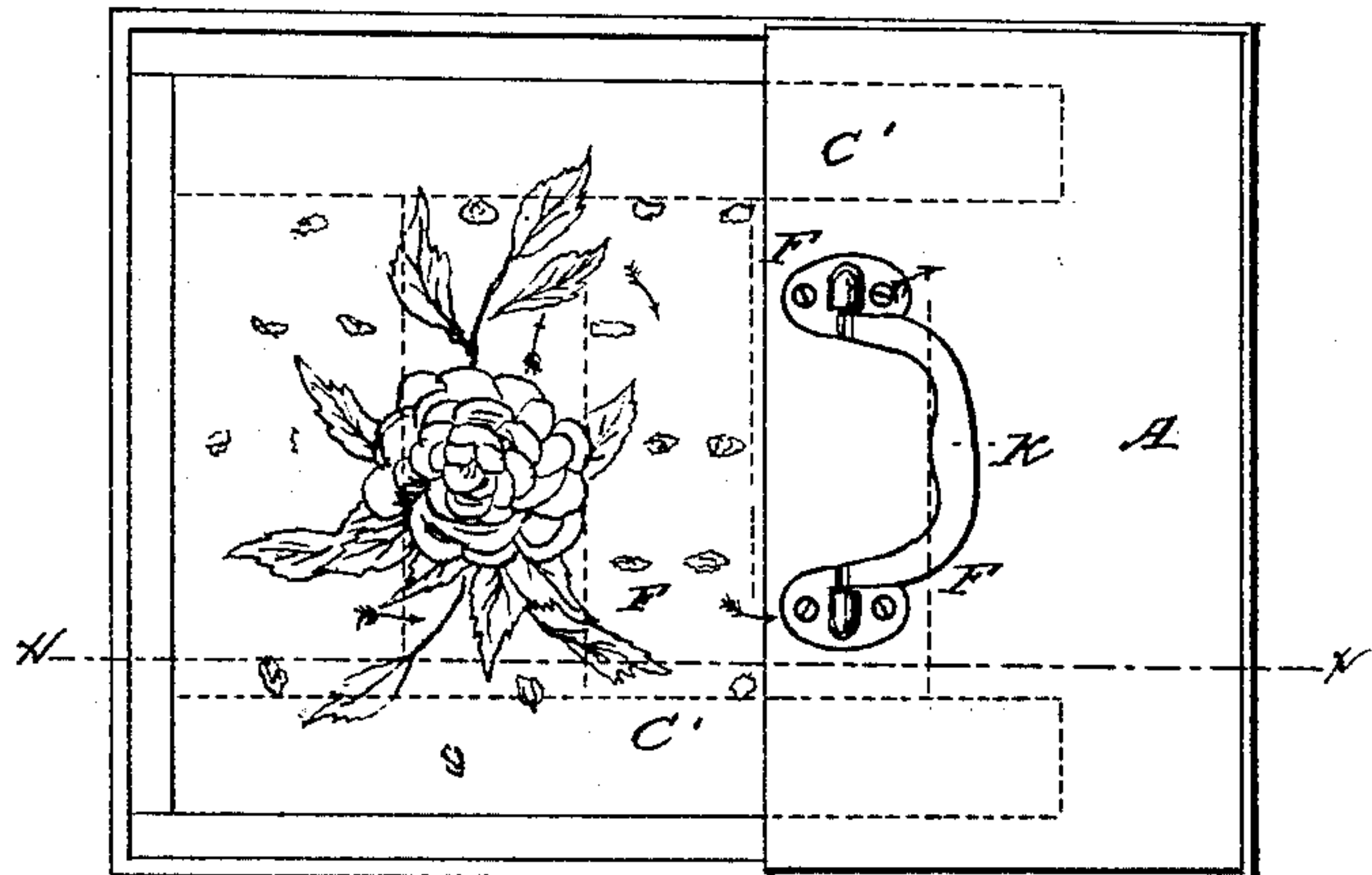


Fig. 2

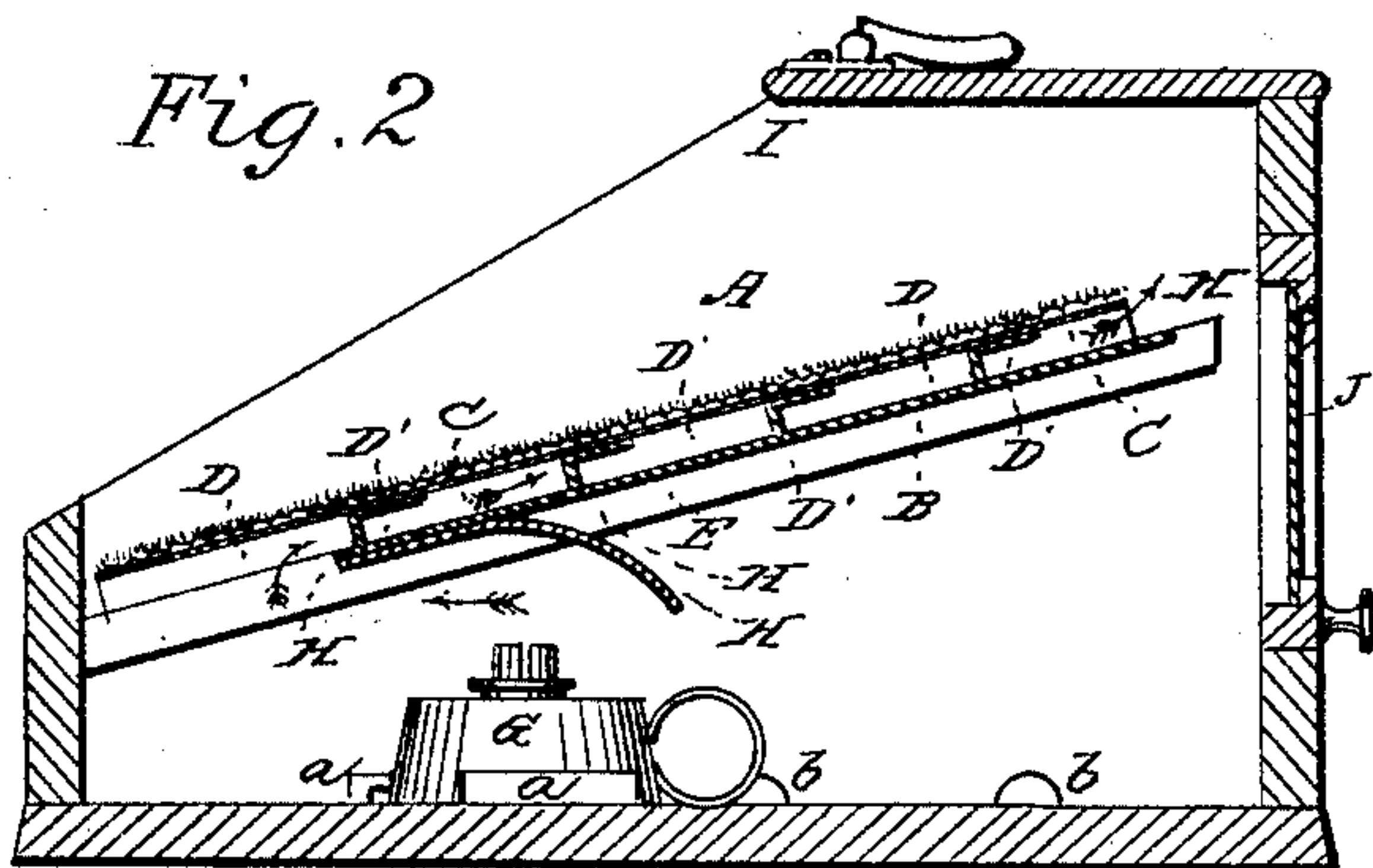
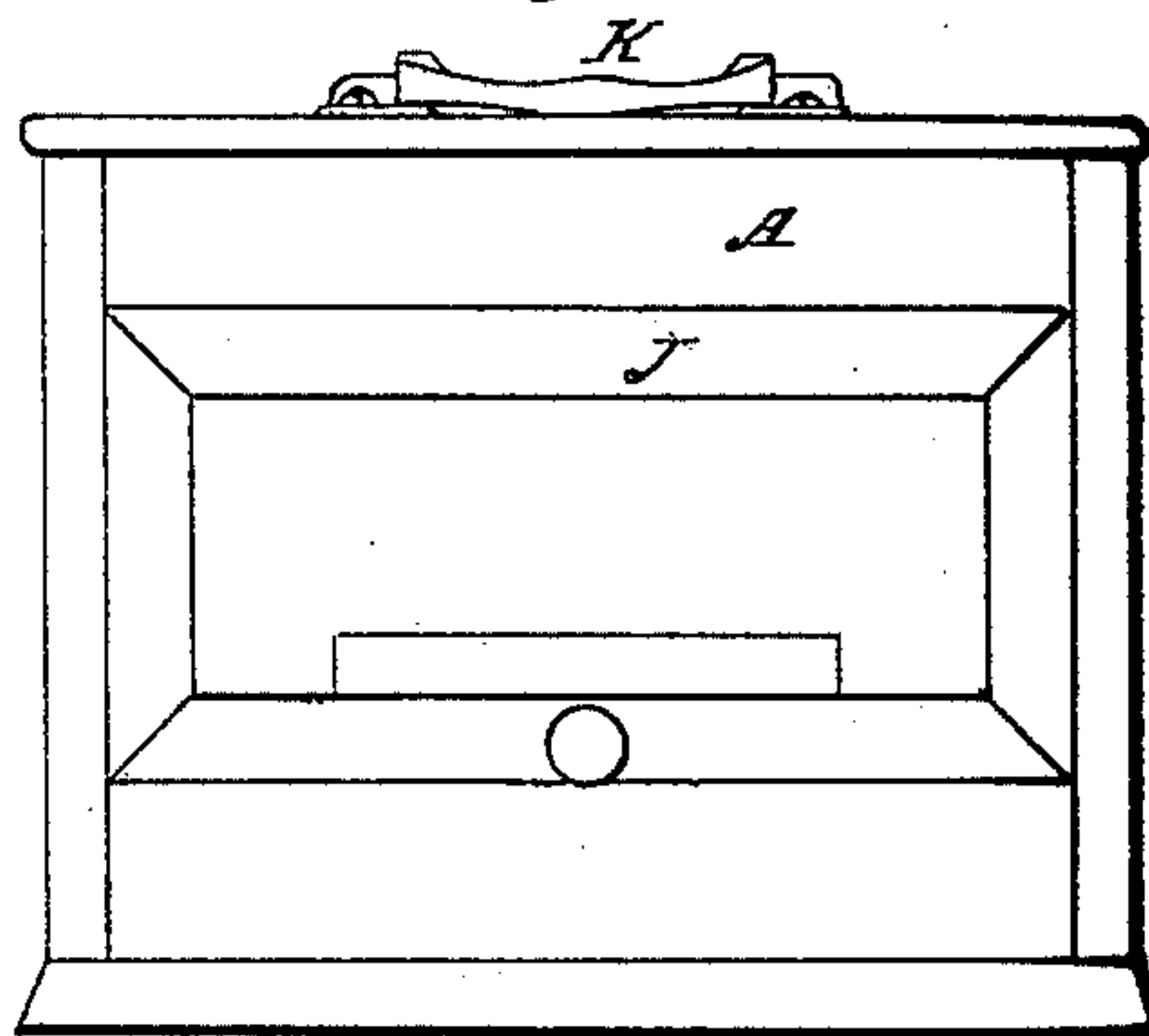


Fig. 3



Witnesses:

W. H. Burdette  
L. Holmes.

Inventor

W. F. Bartlett

# United States Patent Office.

## COMBINED LANTERN AND FOOT WARMER.

W. F. BARTLETT, OF HILLSDALE, MICHIGAN.

*Letters Patent No. 59,810, dated November 20, 1866.*

### SPECIFICATION.

#### TO ALL WHOM IT MAY CONCERN:

Be it known that I, W. F. BARTLETT, of Hillsdale, in the county of Hillsdale, and State of Michigan, have invented certain new and useful improvements in Combined Lantern and Foot Stove, and I do hereby declare that the following is a full and complete description of the construction and operation of the same, reference being had to the accompanying drawings making a part of this specification, in which—

Figure 1 is a top view.

Figure 2 is a vertical section in the direction of the line  $xx$ , in fig. 1.

Figure 3 is an end view.

Like letters of reference refer to like parts in the several views.

A represents the case, the form of which is indicated in the drawing. On the inside of the case and connected to the sides are strips, B, on which the foot-plate rests. This plate consists of two narrow strips, shown at C, and the dotted lines, C', fig. 1, extending across from one to the other; on top of these strips is a piece of sheet iron, D, and to this are connected cross-flues, D', that extend down to the iron, E, which extends across on the under side of the strips C; these cross-flues, D, extend part way across from one of the strips, C, to the other, one extending from one side and the next from the opposite side, as indicated by the dotted lines, F, in fig. 1. There can be more or less of these cross-flues, as required.

The foot-plate can be covered with carpet or other material, so as to render it more comfortable, and it is also adjustable, and can be easily removed, when the lamp can be reached without any inconvenience.

G represents the lamp, and  $a$  strips attached to the bottom of the case for keeping the lamp in place. The heat from the lamp, coming against the reflector H, passes up over the sheet iron, E, in the direction of the arrows, H', passing out from under the foot-plate and out at I. As the heat passes between the sheet iron, D, and E, it passes round the cross-flues, D, in the direction of the arrows, in fig. 1.

The object of the cross-flues, D', is to conduct the heat over more surface than if it passed straight out between the pieces of sheet iron, D, E, and also to strengthen the plate so that the pressure of the feet cannot effect any harm. At the end of the case is a door, J, the panel or centre of which is glass; this door is for the convenience of getting at the lamp. This stove can also be used for a lantern, the light reflecting through the glass in the door, K being the handle for carrying it. The openings,  $b$ , are for the admission of air.

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

The cross-flues D', and reflector H, in combination with the lamp G, and case A, as and for the purpose set forth.

W. F. BARTLETT.

Witnesses:

W. H. BURRIDGE,  
J. HOLMES.