J. H. Keyser,

Stove Door.

No. 81,176. Patented Aug. 18, 1868.

Fig. 1.

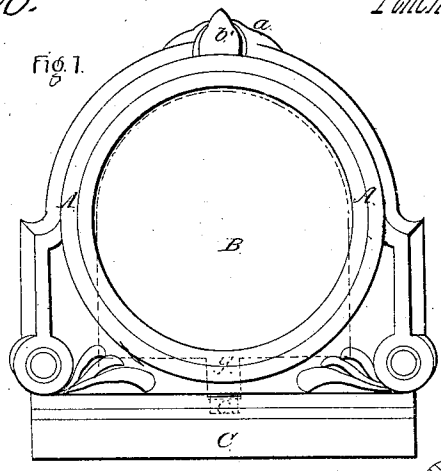


Fig. 2.

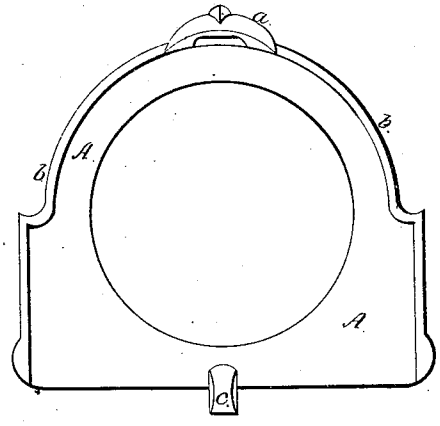
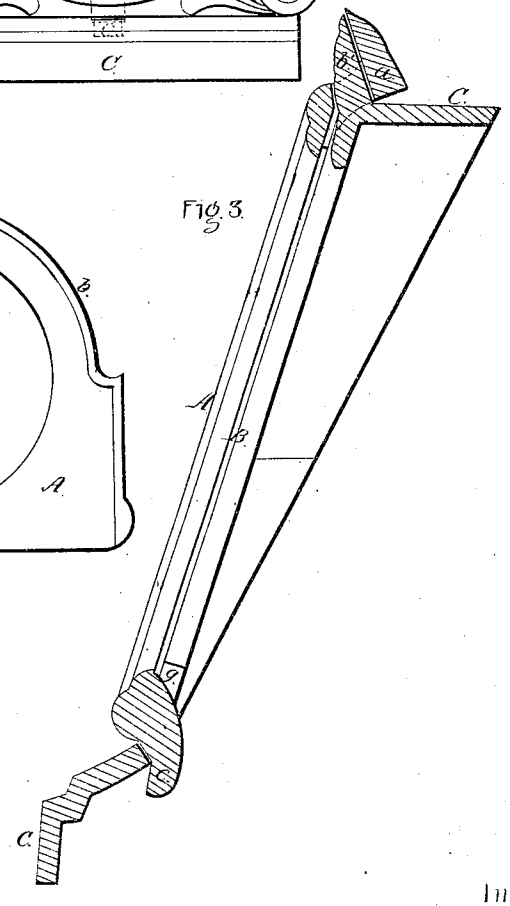


Fig. 3.



Witnesses:

R. T. Campbell

J. R. Campbell

Inventor:

John H. Keyser

by

Mann Fennick & Co.

United States Patent Office.

JOHN H. KEYSER, OF NEW YORK, N. Y.

Letters Patent No. 81,176, *dated August* 18, 1868.

MODE OF ATTACHING MICA TO STOVE-PLATES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOHN H. KEYSER, of the city of New York, in the county and State of New York, have invented a new and improved Illuminating-Window or Door; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a front view of the improved illuminating-window or door.

Figure 2 is a view of the back part of the removable section of the door or window.

Figure 3 is an enlarged vertical section, taken centrally through the improved door or window.

Similar letters of reference indicate corresponding parts in the several figures.

This invention relates to an improved mode of applying mica and other transparent substance to the doors and windows of stoves, for the purpose of affording illumination, and exposing to view the condition of a fire in a stove, without the necessity of opening a door or window. Such illuminating-doors and windows are most generally applied to base-burning stoves, and under the old mode of fastening in place the mica plates, a great many screw-bolts and nut-fastenings are required, which add considerable expense and labor to the stoves.

The object of my invention is to provide for applying mica and other transparent plates to stove-doors, and the openings made through stove-plates, by the employment of self-fastening frames, which are adapted to fit around an opening made through a door or stove-plate, and to be secured to the same by means of tongue-and-eye fastenings, as will be hereinafter explained.

To enable others skilled in the art to understand my invention, I will describe one practical mode of carrying it into effect.

In the accompanying drawings, I have represented my invention applied to a stove-window, but it will be obvious from the following description that the same principle is applicable to doors for stoves.

C represents a window-frame, which is constructed with a plain external face, so that a plate of mica or glass will lie snugly against it and be held in place by a frame, A. This frame, A, is constructed with a loop or eye-piece, *a*, upon its upper edge, and also with a tongue or hook, *c*, upon its lower edge; it also has a rib or flange, *b*, formed upon its external edge, and raised upon its back face, as shown in fig. 2. The frame C has a tongue, *b'*, formed upon its upper end, which is adapted for receiving the loop *a* on the frame A, and it also has a notch, *g*, made in its lower edge for receiving the hook *c*, as clearly shown in fig. 3. The plate, B, of mica, or other transparent substance, is cut to fit within the rib *b*, on the back of frame A, and notched to receive the tongue *c* on this frame. This plate being adjusted in place upon frame A, the latter is applied to the face of the frame C, and the tongue *b'* caused to enter the loop *a*; at the same time the frame A is forced downward until the tongue *c* is seated into its notch *g*, when this frame will be securely held in place with the mica plate interposed between the two frames, and covering the openings through them.

In constructing the fastenings, they may be made so that they will draw the frame A snugly and tightly against the window-frame, thus preventing casual displacement of the former.

It will be seen from the above description, taken in connection with the accompanying drawings, that the means for securing the mica in its place are cast with the two frames A C, and that no separate fastening is required. It will also be seen that the frame A may be cast so as to present a very neat and ornamental appearance. It can be made very light, and of any desired size and shape, according to the size and shape of the opening around which it is designed to fit.

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

Providing for securing transparent plates over openings made through stove-plates or doors, by means of a self-fastening frame, substantially as described.

JOHN H. KEYSER.

Witnesses:

WILLIAM TURTON,

WM. F. HUESTON.