

G. S. STANARD.

Mica Frame for Stoves.

No. 103,674.

Patented May 31, 1870.

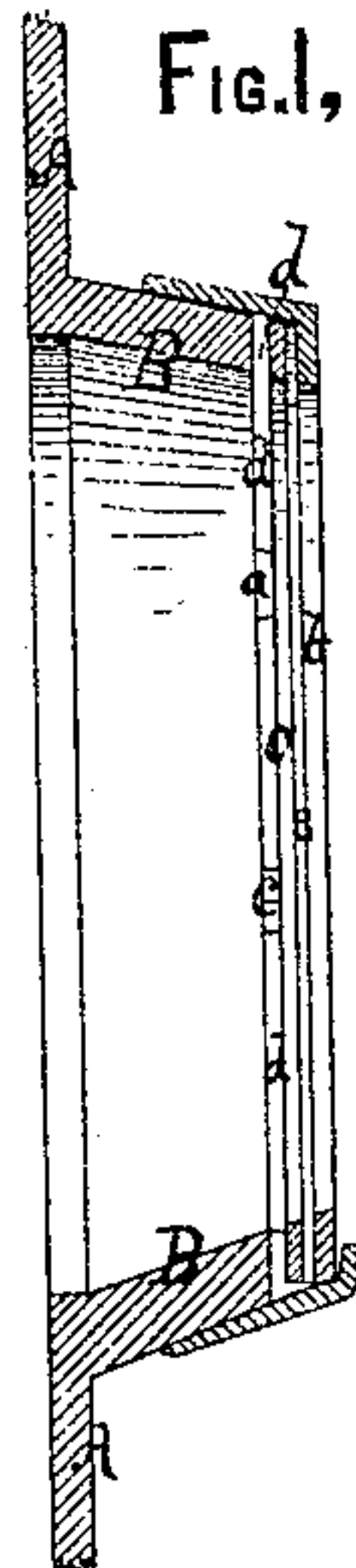


Fig. II,

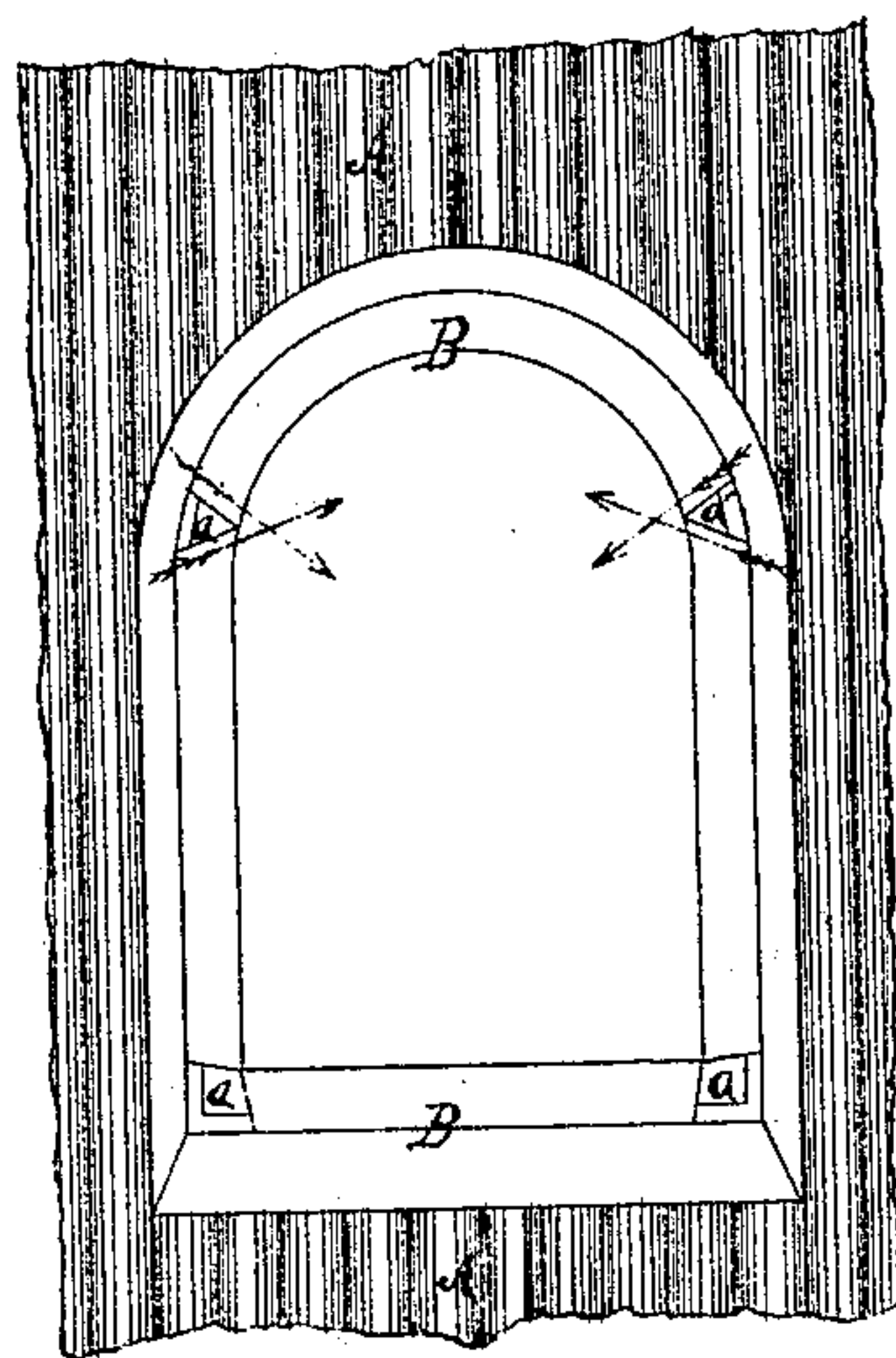
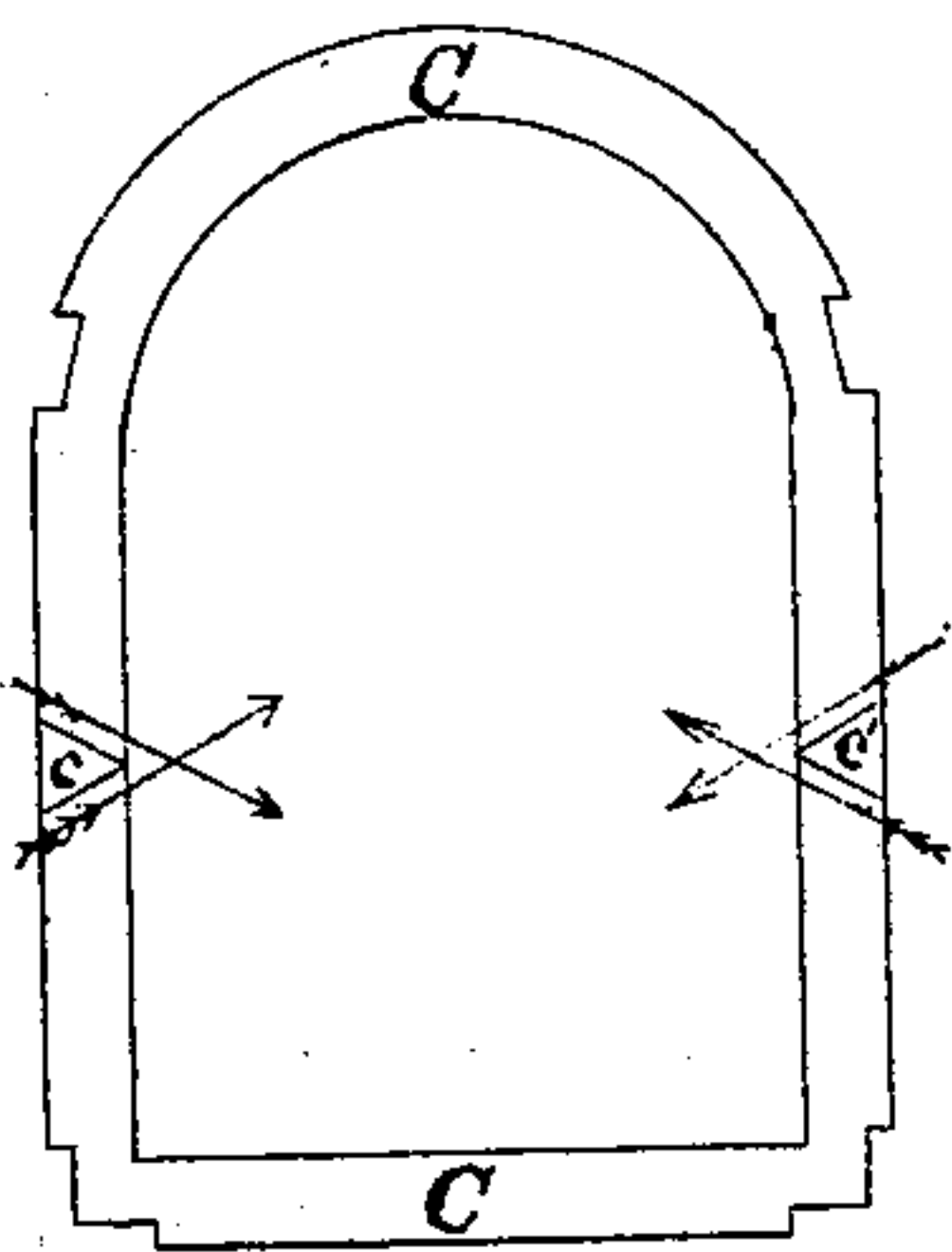


Fig. III,



J. P. Drake. }
C. N. Woodward. } WITNESSES.

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UNITED STATES PATENT OFFICE.

GAYLORD SHARP STANARD, OF BUFFALO, NEW YORK.

MICA-FRAME FOR STOVES.

Specification forming part of Letters Patent No. **103,674**, dated May 31, 1870.

To all whom it may concern:

Be it known that I, GAYLORD SHARP STANARD, of Buffalo, in the county of Erie and State of New York, have invented certain Improvements in Mica-Frames for Stoves, of which the following is a specification:

Nature of Invention.

My invention relates to the windows of stoves in which mica is used, the object being to prevent the mica from becoming blackened or burnt, or otherwise defaced or destroyed; and the invention consists in making an air-space between the frame and the mica, and thereby admitting an uninterrupted current of air all around and against the inside surface of the mica, which is accomplished by means of peculiar-shaped lugs attached to the frame or window and also to the mat.

Description of the Drawing.

Figure 1 is a vertical section of the stove-window and frame, showing the air-space, lugs, &c. Fig. 2 is a front view of the window-frame attached to a portion of a stove, with the mica and other frames removed, showing the peculiar form of the lugs. Fig. 3 is a front view of the mat or skeleton frame, with the pointed lugs.

General Description.

A represents a portion of the stove, to which is attached the window frame or casing B, which projects out, as shown in Fig. 1. Attached to or forming part of the frame are lugs *a a a a*, standing a little out from the surface edge of the frame, and which are sharp-pointed at their inner ends, their object to be presently explained. Next to this, and partly resting on these lugs, is a skeleton frame or mat, C, which is for the mica *e* to rest on, and outside the mica *e* rests the usual ornamental frame B. This skeleton frame C is also provided with lugs *c*, of a similar shape and for a similar purpose as lugs *a a*—namely, to keep the mica a little away from the main window frame or casing B, and thus leave an uninterrupted air-space, *d*, all around the said frame, by which the air at all times can have free access.

This is the important feature of my invention, to which I call special attention.

It is well known that the mica in all stoves, but especially in those using soft coal, will soon blacken, sometimes the first time a fire is made, and remain so, thus failing in the object for which they are intended—viz., to allow the fire to be seen and to illuminate the room.

In hard-coal stoves the mica soon becomes blistered from the intense heat, as well as defaced and destroyed.

By arranging this air-space *d* the heat inside creates a constant suction through this space of cold air from the outside, which repels the flame, gas, and smoke from the mica, keeping it always cool, bright, and clean.

The peculiar-shaped lugs *a* and *c* are very important to this end, and materially aid in the double effect, not only in forming the air-space, but in keeping the mica clean, for, by making the inner edges of the lugs pointed, they present no surface for the air to strike against, the currents of air coming in each side of either lug in the directions noted by arrows in Figs. 2 and 3, and which allows the air to reach and cover the entire surface of the inner face of the mica.

This effect cannot be produced by any other shaped lug, round, square, &c., which, if employed, will leave dark marks or streaks on the mica in consequence of impeding the perfect inward flow of the air.

I claim as my invention—

1. The air-space *d*, formed between the frame B C and mica *e* by means of lugs *a c*, for the purpose of allowing an uninterrupted flow of air to enter from all sides, as herein set forth.

2. Combined with the frame B and mat C, the lugs *c c*, attached to either or both, and having their inner edges made sharp or pointed to facilitate the entrance and diffusion of the air, as herein described.

3. The arrangement of the frame B, mat C, sharp-edge lugs *a c*, and air-space *d*, the whole as herein specified.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

GAYLORD SHARP STANARD.

Witnesses:

ALBERT HAIGHT,
C. N. WOODWARD.