F. A. GROVE.
Sash-Fastener.

No. 197,355. Patented Nov. 20, 1877.

FIG. I

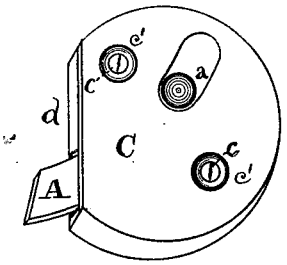

FIG. II

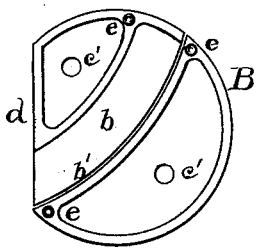

FIG. III

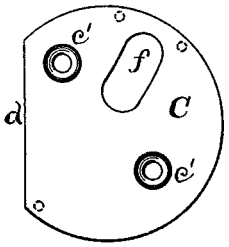

FIG. IV

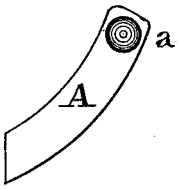

FIG. V

WITNESSES.

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FULLERTON A. GROVE, OF KIRKSVILLE, MISSOURI.

IMPROVEMENT IN SASH-FASTENERS.

Specification forming part of Letters Patent No. **197,355**, dated November 20, 1877; application filed July 6, 1877.

To all whom it may concern:

Be it known that I, FULLERTON A. GROVE, of Kirksville, in the county of Adair and State of Missouri, have invented a new and useful Improvement in Sash-Holders; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, making part of this specification.

The object of my invention is the improvement of sash-fasteners of the class in which a gravity-bolt is employed.

The sash-fastener and my improvement will first be described in connection with the drawings, and then the invention pointed out in the claim.

In the drawing, Figure I is a front view of the sash-holder, showing the bolt shot. Fig. II is a view of the back of the case. Fig. III is a view of the front plate. Fig. IV is a view of the bolt. Fig. V is a view of the stops or catches.

The case or shell is nearly circular in shape, and for ordinary sashes should be about one and three-quarter inch in diameter, and from one-fourth to three-eighths of an inch in thickness, and made of brass or gray casting.

A represents the bolt, which is arc-shaped, with its outer edge conforming to the segment of a circle having a diameter of three and a half inches, which edge should be ground or finished smoothly. The bolt may be cast or cut by dies from suitable sheet metal, and should have a projection or knob, *a*, on the upper end.

The back of the case B has formed on the inner or front side thereof a groove, *b*, of a shape corresponding to the bolt, and in which the latter slides. In order that the lower side of the groove *b'* may be readily ground or finished smooth, thus to lessen the friction of the sliding bolt, the back of the case is made in two parts, which join, or the edges of which abut, on the line of the lower side, *b'*, of the groove.

The pits *e* in the case are to receive spuds correspondingly located on the inner side of the front plate C, which latter is secured to the case and to the sash by two screws, *c*, which pass through screw-holes in the front and back of the case. The front plate has a short slot, *f*, to permit the movement back and forth of the projection or knob *a* of the bolt. This lock may be applied to the sash on the face of the frame, the bolt in such case catching in notches on the retaining-strip, or it may be embedded in the sash-frame, so as to leave the front plate flush therewith. In either case it is secured by screws in the holes *c'*.

To embed the sash-holder in the sash-frame, I make a mortise with a boring-bit of the same size of the case B, and locate the mortise so that the vertical or straight side, *d*, of the case may be flush with the side edge of the sash-frame. When thus applied the bolt catches in notches in the window-frame, and the latter are protected from wear or abrasion by metal sheaths embedded therein, and of the form shown in Fig. 5.

It will be seen the tendency of the bolt is to remain shot, and when withdrawn from the notch, to raise or lower the sash, its gravity causes it to adjust itself again.

Having described my invention, I claim and desire to secure by Letters Patent—

In a sash support and lock having an arc-shaped gravity-bolt, the front plate C, having on its inner side spuds which fit into corresponding pits *e* in the case back B, which latter is made in two parts, as shown, whereby the lower side of the bolt-groove *b* may be smoothly finished.

FULLERTON A. GROVE.

Witnesses:

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W. J. ASHLOCK.