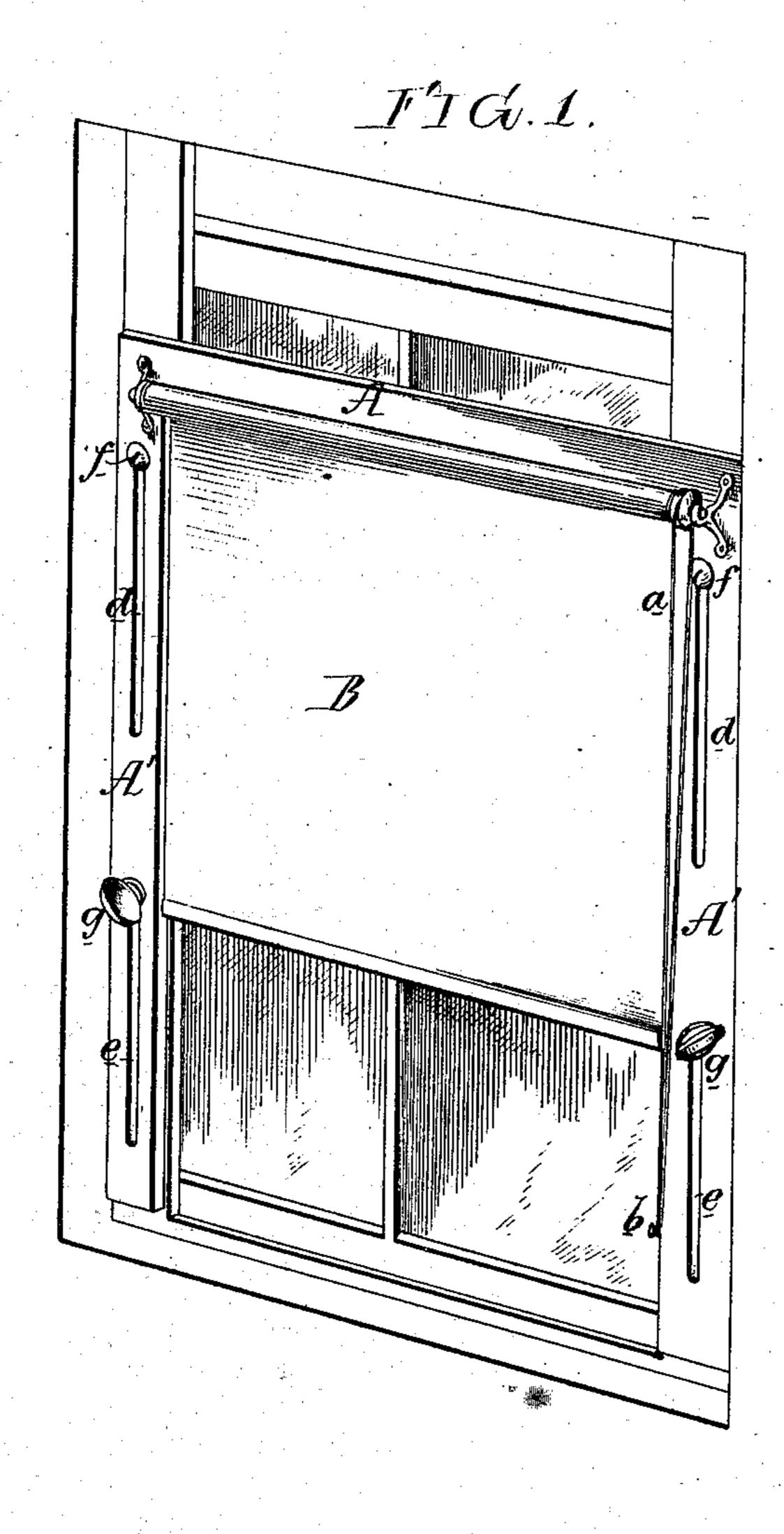
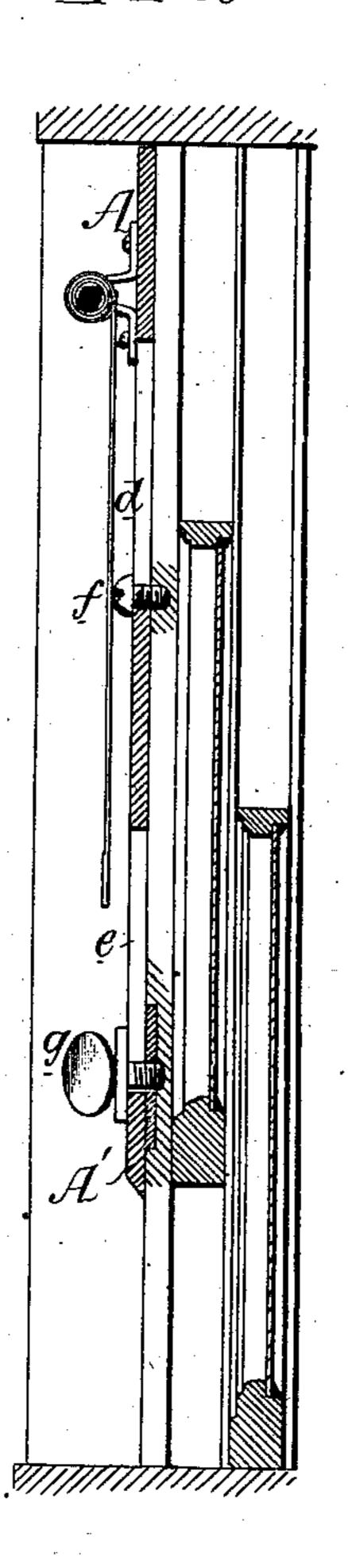
## H. E. BUSCH. Curtain-Fixtures.

No. 160,872.

Patented March 16, 1875.



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Witnesses,

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## UNITED STATES PATENT OFFICE.

HENRY ERNEST BUSCH, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO SAMUEL T. LLOYD AND EDWIN L. LLOYD, OF SAME PLACE.

## IMPROVEMENT IN CURTAIN-FIXTURES.

Specification forming part of Letters Patent No. 160,872, dated March 16, 1875; application filed October 26, 1874.

To all whom it may concern:

Be it known that I, Henry Ernest Busch, of Philadelphia, Pennsylvania, have invented certain Improvements in Window-Shade Fixtures, of which the following is a specification:

The object of my invention is to so arrange a window-shade roller and its attachments that it can be raised or lowered and secured after adjustment without interfering with the functions of the shade-cord. This object I attain in the manner shown in the accompanying drawing, in which—

Figure 1 is a perspective view of a window-frame, showing my improvement; and Fig. 2,

a vertical section.

Window-shades as ordinarily hung prevent access to the upper sash of the window until the shade is rolled up to its full or nearly to its full extent, and when the upper sash is lowered the passage of air is obstructed by the shade. Attempts have been made to obviate this difficulty by so arranging the shaderoller that it could be raised and lowered; but this interfered with the functions of the shadecord, a defect which I overcome in the manner which I will now proceed to describe.

A frame consisting of two legs, A' A', connected together at the top by a cross-bar, A, is so adapted to the inside of the window-frame that it can be adjusted vertically therein to a limited extent. At or near the top of this frame are two brackets, to which the shade-roller is hung in the usual manner. The ordinary shade-cord a passes round a pulley

on the shade-roller and round a retainer, b, secured to one of the legs of the sliding frame. Each leg A' has two slots, d and e, through the former of which pass set-screws f into the window-frame, so as to guide the said sliding frame, and through the slots e pass the stems of thumb-screws g, by which the said sliding frame is secured after adjustment.

The special features of my invention are the attachment of the retainer b to the rigid frame, which carries both roller and retainer, and the application of said frame to the outer face of the window-frame, thereby rendering it unnecessary to alter the window-frame, or to provide special guides in order to apply the fixture.

I do not claim a roller combined with a frame sliding in the window-frame; nor an adjustable strip carrying the roller-bearing and cord-retainer; but

I claim—

The combination of a shade-roller, and a rigid frame consisting of strips A A' A', carrying both the roller and a cord-retainer, b, and having slots de, for the passage of screws by which the frame is secured to the face of the window-frame, all as set forth.

In testimoný whereof I have signed my name to this specification in the presence of two

subscribing witnesses.

HENRY E. BUSCH.

Witnesses:

HUBERT HOWSON, HARRY SMITH.