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C. S. Bruff.

Sash Holder.

No. 15,557. Patented Aug. 19, 1856.

Fig 1.

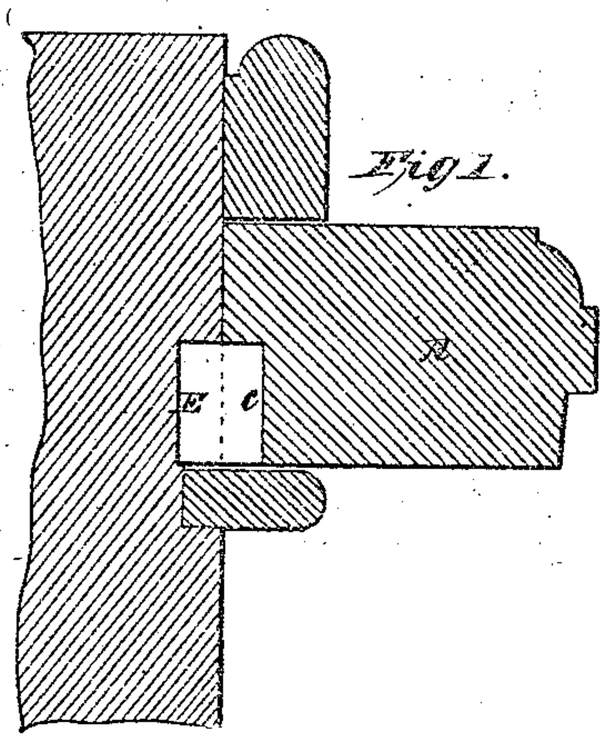


Fig 3.

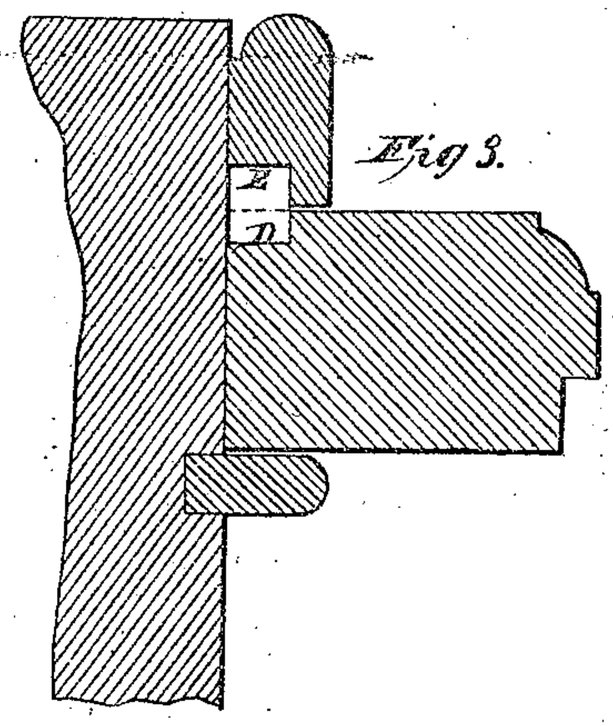


Fig 2.

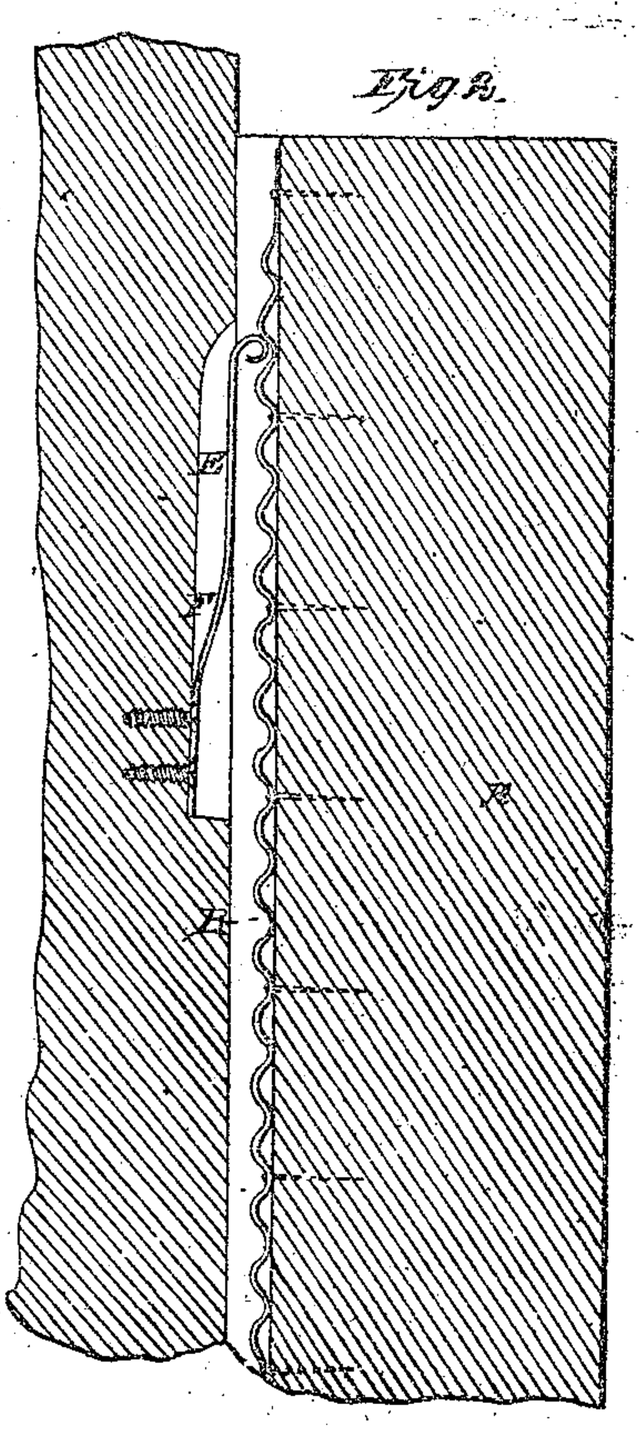
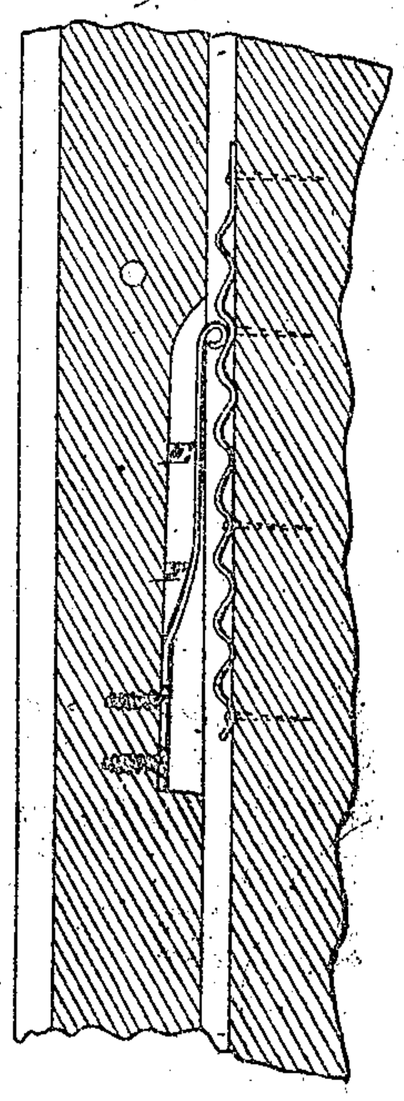
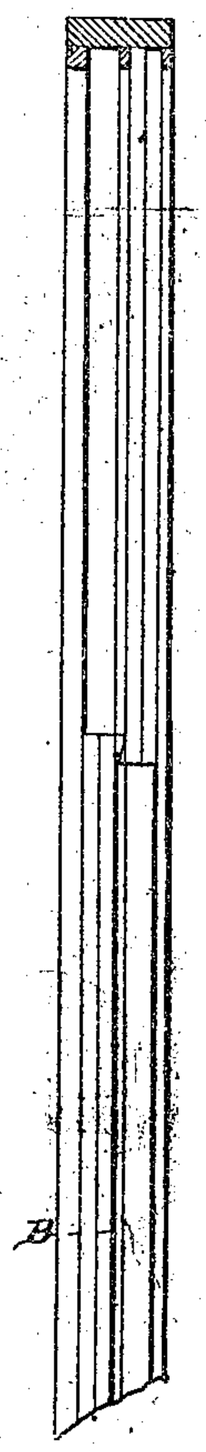


Fig 4.





UNITED STATES PATENT OFFICE.

CHAS. S. BRUFF, OF BALTIMORE, MARYLAND.

SASH-SUPPORTER.

Specification of Letters Patent No. 15,557, dated August 19, 1856.

To all whom it may concern:

Be it known that I, CHARLES S. BRUFF, of the city of Baltimore, in the State of Maryland, have invented a new and Improved Stop for Holding Window-Sash When Hoisted or Lowered; and I do hereby declare that the following is a full and exact description, reference being had to the accompanying drawings and to the letters of reference marked thereon.

The nature of my invention consists in providing one edge of a sash with a rack, formed by corrugating a strip of zinc or other metal, into a series of irregular teeth, that is—one side longer than the other, (or using a cast rack of same pattern), so that the sash will hoist with greater ease than it will lower and inserting a spring in the jamb, with a tooth on the end, catching into said corrugations. Said rack being secured by brads in a rabbet of the sash, and the spring in a score cut out of the jamb to receive it, secured by screws; said rack and spring being operated upon by simply hoisting or drawing down the sash, as if supplied with weights &c. answers the same purpose of weights, cords, &c., at one eighth their expense, and is far more durable.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct my sash in the usual way, and from the back edge on one side, as at A, Figs. 1 and 2, I take a rabbet (C) the whole length of the stile, of the width of the rack desired, and about twice the depth of the corrugations of the rack. In said rabbet I plant my corrugated rack B and secure it to the sash by means of segar tacks or brads, at about every 3 or 4 corrugations. The spring F, is then secured by screws into a score E cut out of the jamb, of depth sufficient to allow it to work free. Said rack is composed of a series of teeth, with one side about 50 pr. ct. longer than the other, that the inclination in hoisting may be much easier than in lowering; and said corrugations are made in said shape by simply passing the strips of metal between two cog wheels, geared into each other, and set loose, and operated upon by a crank or other power. The spring F is made of brass or common hoop iron, hammered to a temper, with the end turned over outward, to form a tooth, to catch into the corrugations, and keep the sash in its position. Said springs are inserted near the top of the lower sash, and at the bottom of the upper sash. The tooth of the spring should be filed smooth. The rabbet can be made of less depth than before described, by inserting the spring deeper into the jamb. Said rack can also be applied to the face of the sash, as at Fig. 3, and the rabbet D taken out of the front, on both sides, and the spring F, inserted in a score E, taken out of the stop bead, in cases where the edge of the sash has been planed off in consequence of the settlement of the house, as Figs. 3 and 4. When these racks and springs are properly put on, they perform the same duty as weights, pulleys, cords and boxing, and can be furnished at one-fifth the cost, and are more durable; and are applicable to old as well as new windows; they cannot be tripped suddenly, and the sash can be taken out to wash.

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

The application of the above described rack, corrugated in the particular form described, to one edge of a sash, and the metal spring catching into said corrugations, secured in the jambs, or on the stop bead, as before described, for the purpose of holding up window sash at any desired elevation.

CHARLES S. BRUFF.

Witnesses:

JAMES H. HOGG,

JOHN ARMISTRONG, Jr.