No. 613,114. Patented Oct. 25, 1898.

W. H. BREEDLOVE.

WINDOW.

(Application filed May 21, 1897.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.

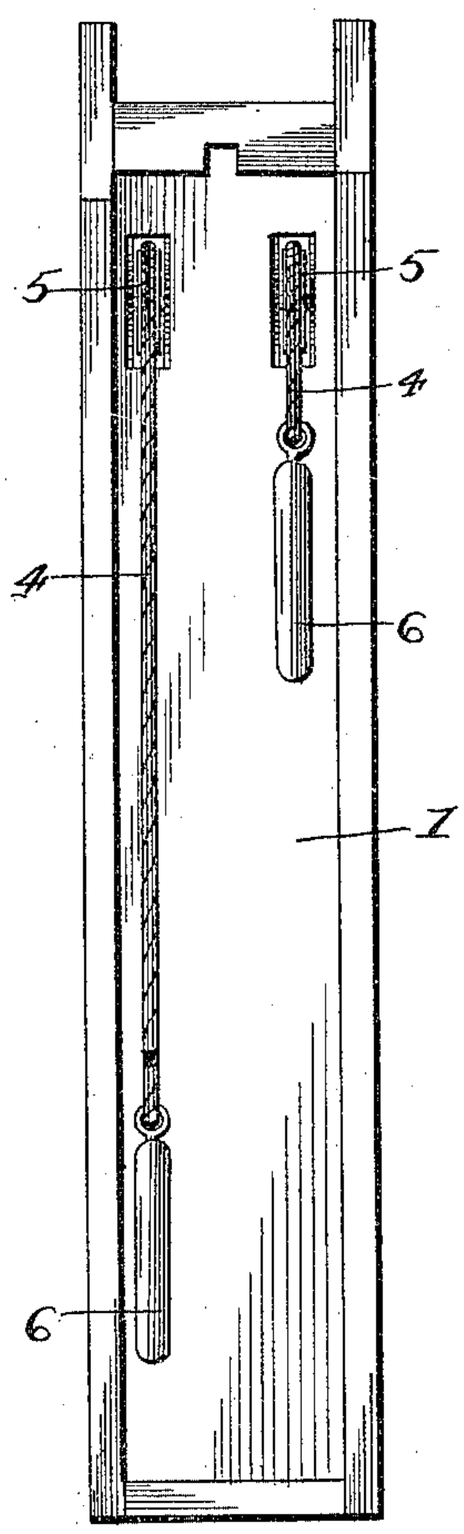
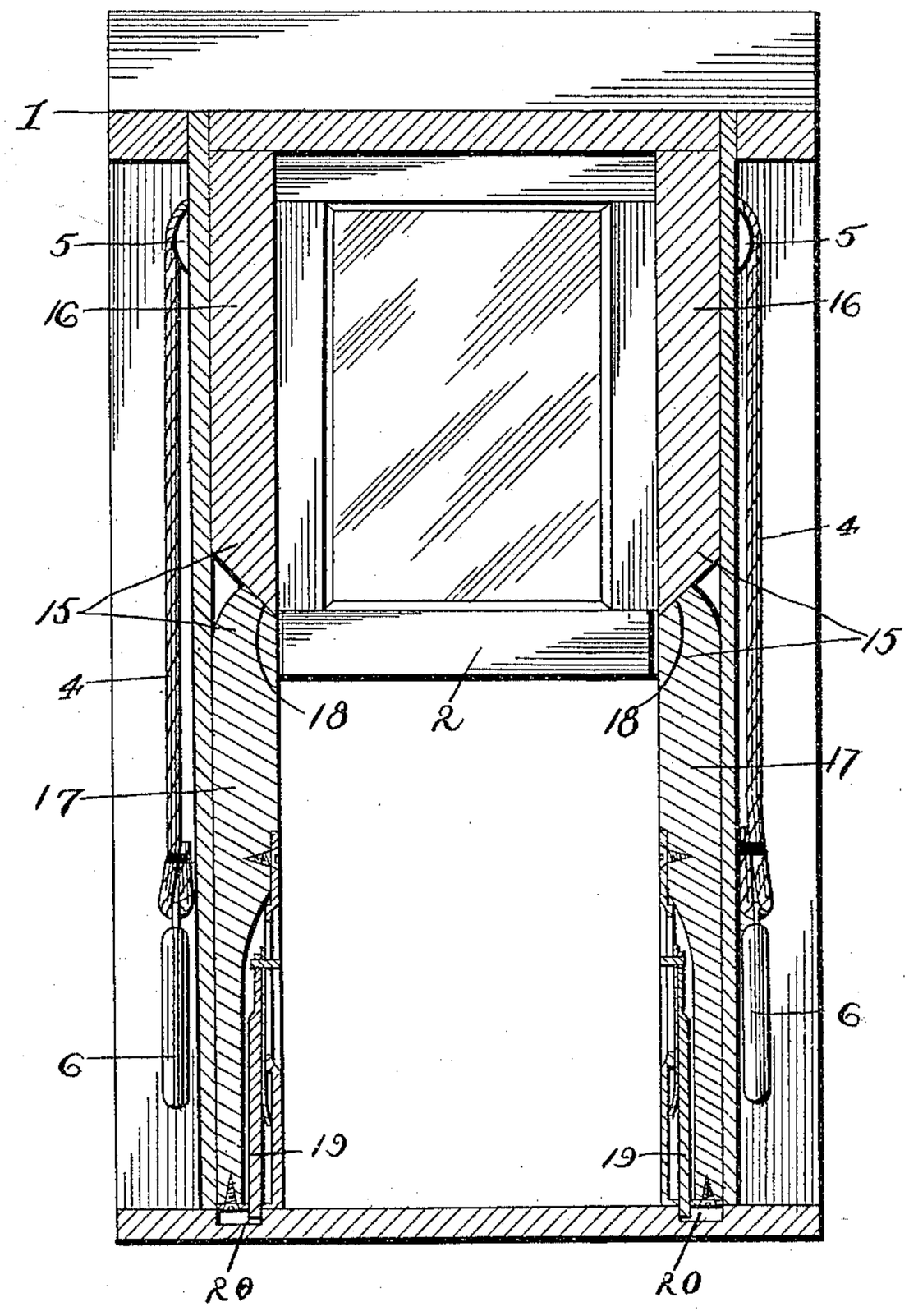


Fig. 2.



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(No Model.) 2 Sheets—Sheet 2.

Fig. 3

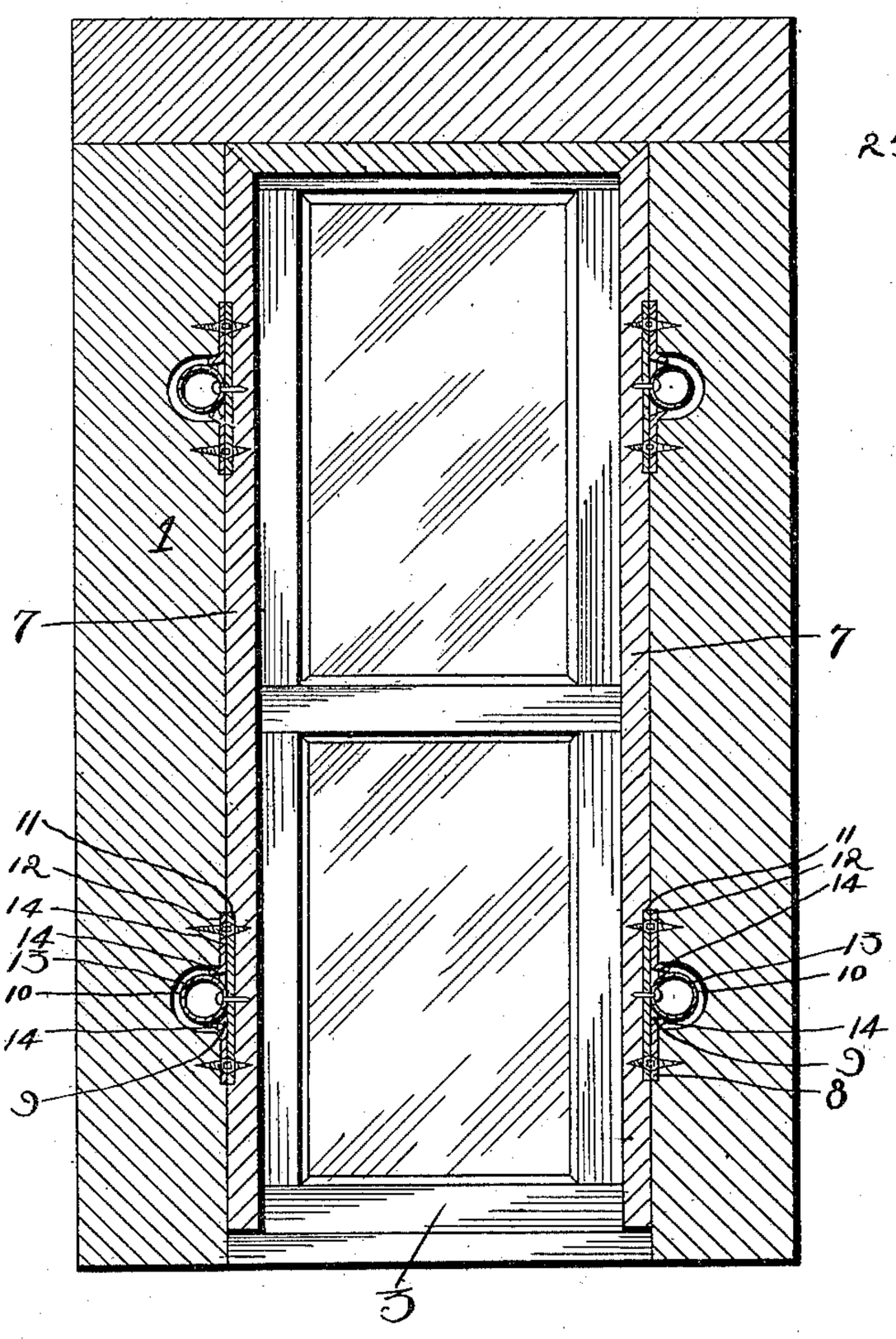


Fig. 4

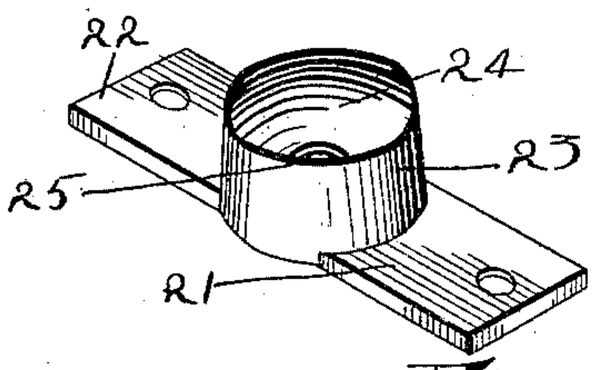
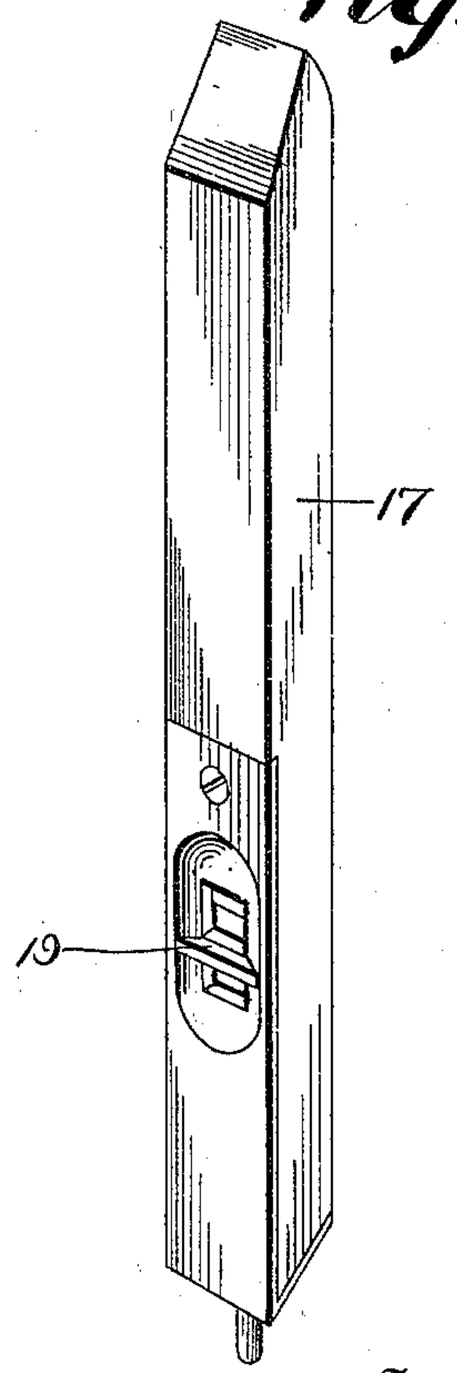


Fig. 5.



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UNITED STATES PATENT OFFICE.

WILIAM H. BREEDLOVE, OF LOUISVILLE, KENTUCKY.

WINDOW.

SPECIFICATION forming part of Letters Patent No. 613,114, dated October 25, 1898.

Application filed May 21, 1897. Serial No. 637,563. (No model.)

To all whom it may concern:

Be it known that I, WILIAM H. BREEDLOVE, of Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Windows; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in windows.

The object of the invention is to provide an improved construction of window, whereby the sashes thereof may be cleaned from the inside of a building, and thereby overcome the necessity of a person leaning at the outside for the purpose of cleansing the window.

A further object of the invention is to so construct the window and the various parts thereof that the sashes may be readily removed from the frame and reversed for cleaning purposes.

With these objects in view the invention consists, substantially, in the novel construction, combination, and arrangement of parts, as will be hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the appended claims.

In the drawings, Figure 1 is a side elevation of a window constructed in accordance with the present invention. Fig. 2 is a vertical transverse sectional view thereof, taken through the parting-strips. Fig. 3 is a similar view taken through the beads. Fig. 4 is a detail perspective view of a device for securing the cords to the sashes. Fig. 5 is a similar view of the removable section of one of the parting-strips.

Referring to the drawings, 1 designates a window-frame, which may be of ordinary construction; 2, the upper sash; 3, the lower sash; 4, the sash-cords; 5, the pulleys therefor, and 6 the weights for operating the sashes. These elements are of ordinary construction, and hence a detailed description thereof is not essential.

The primary object of the invention being to permit removal of the sashes so that the same may be cleaned from the inside of a building, it is obvious that the frame should be provided with means for permitting such removal, and to this end it will be noted that removable beads 7 are employed. The beads 7 are mitered at their upper ends to provide a close fit of the same, as in the ordinary construction, and in order that they may be secured in their proper position a locking-plate 8 is provided for each, which plates are embedded in the sides of the frame and secured therein by screws or other suitable means, and each of said plates 8 is also provided with an elongated slot 9, which communicates with a recess 10, formed in the sides of the frame 1. A catch 11 is secured to each of the beads 7 by screws or other suitable means, and each of said catches comprises an attaching-plate 12, to which is connected a compressible spring locking-ring 13. Projecting from one side of the locking-plates 8 and extending into the recesses 10 at the upper and lower ends of the slots 9 is a series of converging securing-lugs 14, and it will be noted that the space between the lugs 14 on each of the locking-plates is less than the diameter of the rings 13. By reason of this construction it is evident that as the rings pass through the slots 9 the same must be slightly compressed until their vertical centers have passed the ends of the securing-lugs 14, when said rings will become expanded, and thus secure the same in the recesses 10, the beads 7 being thus locked in their proper positions. By removing the beads 7 from the frame 1 the lower or inner sash 3 may be readily swung into the room and cleaned therein, thus obviating the necessity of a person leaning at the outside of the window for effecting such result. It will also be seen that it is necessary to provide means for permitting removal of the upper or outer sash 2, to accomplish which end sectional parting-strips 15 are employed, each of the latter comprising a fixed upper section 16 and a removable lower section 17, the joint between the upper and lower sections of the parting-strips 15 being mitered, so that the lower ends of the upper sections 16 extend below the upper ends of the lower sections 17, the inner faces of the upper ends of the removable sections 17 being mitered, as at 18, to facilitate the removal and replacement of said sections. Sliding bolts 19 are arranged in the lower ends of the removable sections 17 and are

adapted to enter notches 20, formed in the lower end of the frame 1, and by reason of the bolts 19 it is obvious that after the removable sections 17 have been positioned in their proper places and said bolts moved downwardly the lower ends of the sections 17 are secured against removal, while the mitered joints between the removable sections 17 and the fixed sections 16 will prevent displacement of the upper ends of the removable sections.

By constructing the parting-strips 15 in sections, as thus described, the upper or outer sash 2 may be easily removed, so that the same may be cleaned from the inside of a room by simply removing the sections 17.

For preventing injury to the cords 4 when the sashes are reversed incident to cleaning the same fasteners 21 are employed, each of said fasteners comprising an attaching-plate 22, adapted to be fitted and secured within the usual grooves in the sashes by means of screws or other suitable means, and formed on said plate 22 is an annular flange 23, which provides a knot-receiving cavity 24, in which the knots formed on the ends of the sash-cords are disposed, an opening 25 being formed in each of the fasteners 21 to permit the passage of the cords 4. By this construction it is apparent that the sashes may be easily reversed, and in positioning the fasteners 21 upon the sashes the flanges 23 thereof project into the grooves of said sashes, so that the knot is completely concealed therein.

With the herein-described construction of window by removing the beads 7 and the sections 17 of the parting-strips 15 the inner and outer sashes may be drawn into the inside of a room and there cleaned, and after cleansing the same they may be replaced and the sections 17 and beads 7 again placed in their respective positions. It will be noted that after the rings 13 have been forced between the lugs 14 said rings are securely held therebetween, and considerable pressure is required to displace the beads 7.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

1. In a window, the combination with the frame thereof and sashes arranged therein, of sectional parting-strips, removable beads, catches carried by said beads and comprising an attaching-plate and a compressible spring-ring attached to the outer face of said plate, and locking-plates having openings to receive the rings and means on the plate for engaging the ring at or near diametrically opposite points, substantially as described.

2. In a window, the combination with the frame thereof and sashes arranged therein, of sectional parting-strips, removable beads, catches carried by said beads and each comprising an attaching-plate, and a compressible ring carried thereby, and locking-plates for receiving said rings, said plates being provided with securing-lugs adapted to engage the rings for locking the beads in place, substantially as described.

3. In a window, the combination with the frame thereof, and sashes arranged therein, of parting-strips, each comprising a fixed section and a removable section, the joints between said sections being mitered, whereby the lower ends of the fixed sections are adapted to retain the upper ends of the removable sections in place, and bolts carried by the removable sections for retaining the lower ends thereof in place, removable beads, catches carried by said beads and each comprising an attaching-plate and a compressible ring carried thereby, and locking-plates provided with elongated slots adapted to receive said rings, said locking-plates being provided at the ends of said slots with projecting securing-lugs adapted to engage the compressible rings to lock the removable beads in place, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

WILIAM H. BREEDLOVE.

Witnesses:

VAN W. CANNON,

SOLOMON BLOOM.