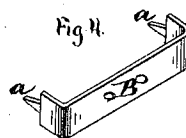
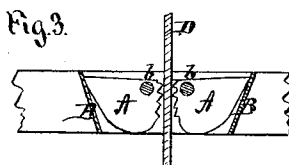
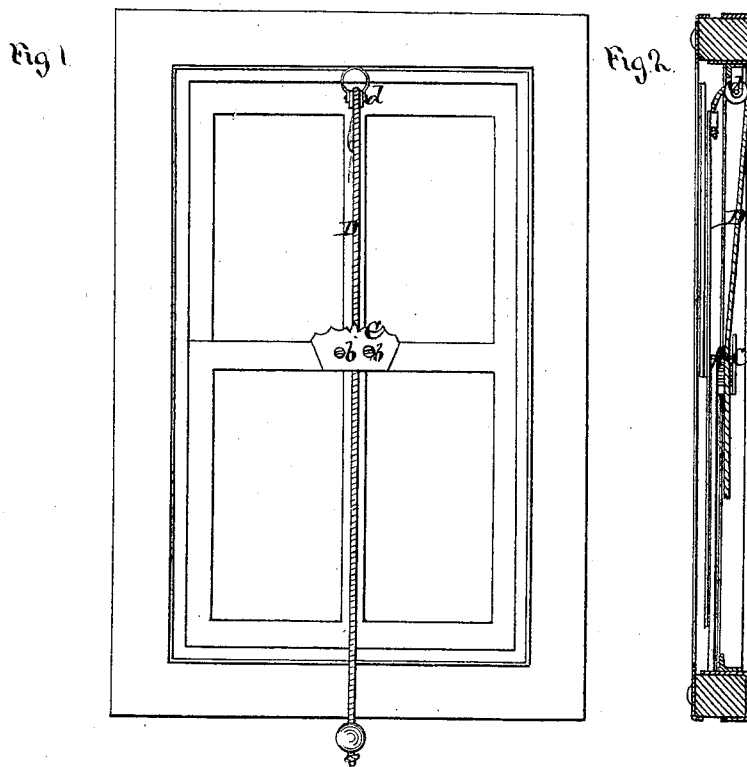


S. J. RUSSELL.

Improvement in Cord-Clamps.

No. 129,367.

Patented July 16, 1872.



Witnesses
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UNITED STATES PATENT OFFICE.

SANFORD J. RUSSELL, OF GREENSBURG, INDIANA.

IMPROVEMENT IN CORD-CLAMPS FOR WINDOWS.

Specification forming part of Letters Patent No. 129,367, dated July 16, 1872.

To all whom it may concern:

Be it known that I, SANFORD J. RUSSELL, of Greensburg, in the county of Decatur and in the State of Indiana, have invented certain new and useful Improvements in Cord-Clamp; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of a cord-clamp, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a front view of a window, showing my cord-clamp applied to the window-sash to raise and lower both sash. Fig. 2 is a vertical cross-section of the same through the center. Fig. 3 is a front view of the cord-clamp with the frame removed, and Fig. 4 is a perspective view of the frame.

My cord-clamp consists of two eccentric drops, A A, toothed upon their adjoining edges. These eccentrics are made of metal, with straight upper surfaces, toothed inner edges, curved lower surfaces, and inclined on their outer edges, and are both pivoted at their upper inner corners, so that the entire weight of the eccentrics is below the pivot-point, substantially of the shape or form shown in Fig. 3. B represents a frame or staple, made as shown in Fig. 4, with its ends turned inward, and each end provided with a tooth, *a*. When my cord-clamp is to be used on a window this frame or staple B is placed in the center of the upper rail of the lower sash, the teeth *a a* entering the wood, and the frame secured by two screws, *b b*, which also pass through and pivot the two eccentric drops A A at their

upper adjoining corners, between the sash and the frame or staple. The screws *b b* also secure an ornamental face-plate, C, on the front or outside of the staple B. The cord D passes between the drops A A, and its upper end goes over a pulley, *d*, attached to the top of the window-frame, and is attached to the top of the upper sash. The toothed eccentric drops A A both stop at a given point, so that either may be thrown off, at pleasure, to raise or lower either sash; and as soon as the cord is brought straight or perpendicular they instantaneously take a firm hold of the cord and hold the sash precisely at the point to which it may have been raised.

It will be noticed that by merely pulling the loose end of the cord D either to the right or left one of the drops is disengaged, so as to raise or lower the sash; and, by having two of these eccentric drops—one on each side of the cord—they will at once grasp and hold the cord when it is let down perpendicularly.

The staple or yoke, as it may be called, may be made of wrought or cast iron or other metal, and by attaching an ornamental face-plate it saves extra work on the interior parts, thus making it cheap.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The within-described cord-clamp, composed of the two eccentrics, A A, made in form as shown, pivoted at their upper inner corners, and secured by the bent metallic bar B, provided with the teeth *a a*, all as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand this 6th day of March, 1872.

S. J. RUSSELL.

Witnesses:

WM. P. HANN,
J. C. HUMPHREYS.