

A. R. WATTERSON.

SASH-PULLEY.

No. 176,906.

Patented May 2, 1876.

Fig. 1.

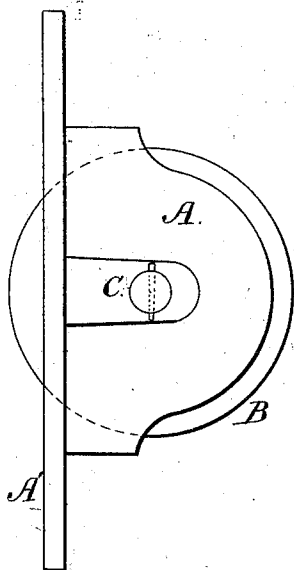


Fig. 2.

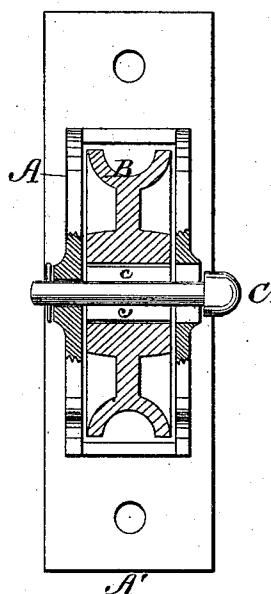
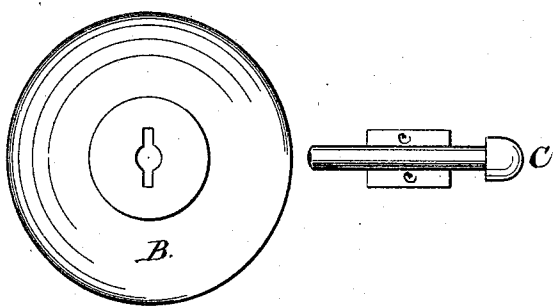


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ARTHUR R. WATTERSON, OF SAN FRANCISCO, CALIFORNIA.

IMPROVEMENT IN SASH-PULLEYS.

Specification forming part of Letters Patent No. **176,906**, dated May 2, 1876; application filed January 22, 1876.

To all whom it may concern:

Be it known that I, ARTHUR R. WATTERSON, of the city and county of San Francisco, California, have invented an Improvement in Sash-Pulleys, of which the following is a specification:

The invention consists in securing the shaft or cross-pin of a sash-pulley by fins or projecting flanges formed thereon, and fitting in corresponding elongated slots or recesses of the pulley and of one of the side plates.

Figure 1 of drawing is a side elevation; Fig. 2, a vertical cross-section. Fig. 3 is a side elevation of pulley and cross-pin.

A represents the side plates; B, the pulley; C, the shaft or cross-pin, and A' the face-plate of the pulley-casing. The shaft or cross-pin C is secured by fins or projecting flanges, c, formed thereon, fitting in corresponding

elongated slots or recesses of pulley and of one of the side plates, as shown in the drawing, so that the pulley may be inserted, detached from, or applied to the window-casing by the fastening-screws of the front plate in an easy and convenient manner.

Having thus described my invention, what I claim is—

A sash-pulley having its shaft or cross-pin C secured by fins or projecting flanges, c, formed thereon, and fitting in the corresponding elongated slots or recesses of the pulley and of one of the side plates, substantially as and for the purpose specified.

ARTHUR ROBERT WATTERSON.

Witnesses:

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