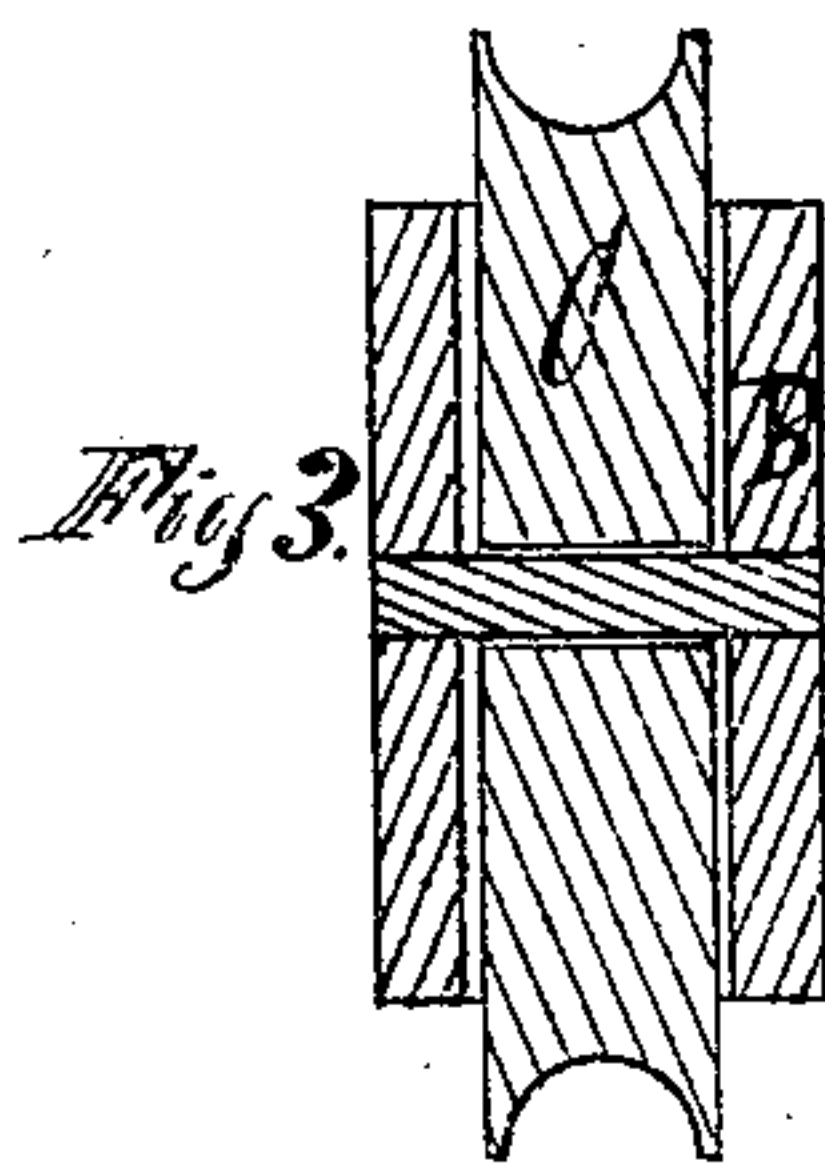
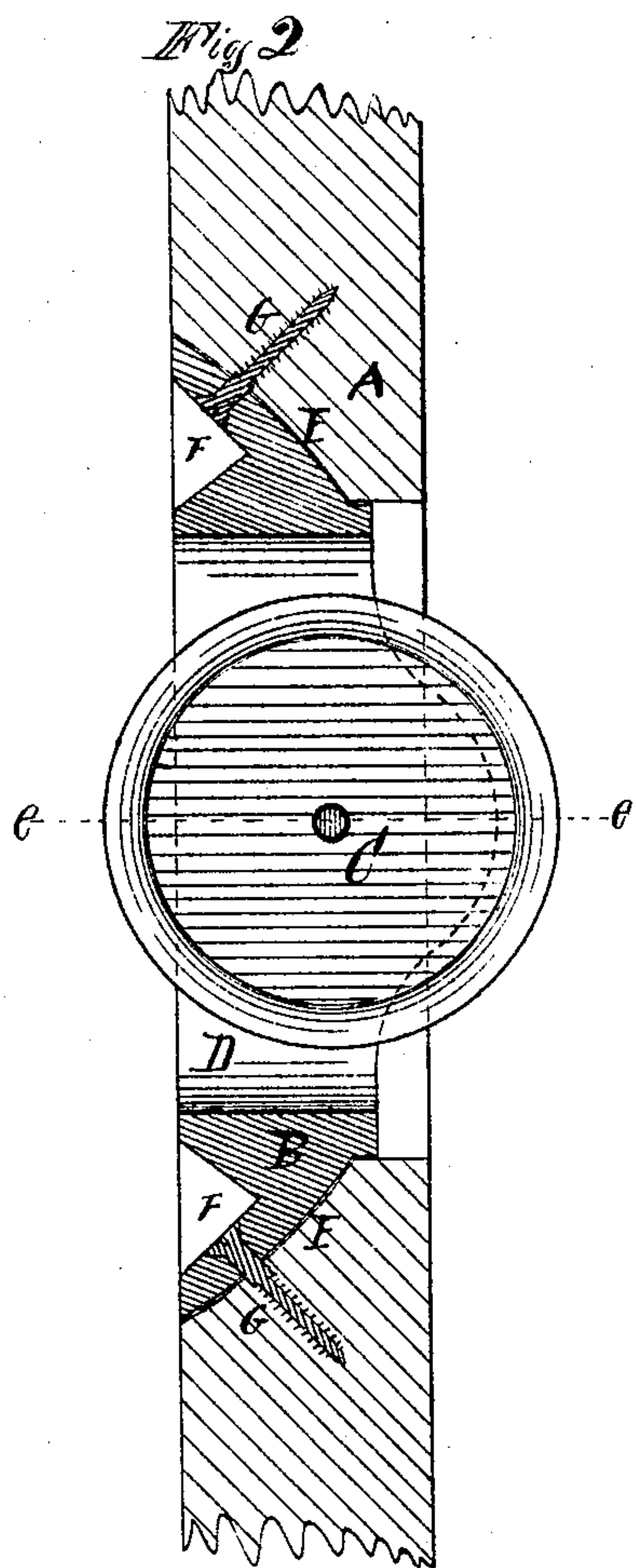
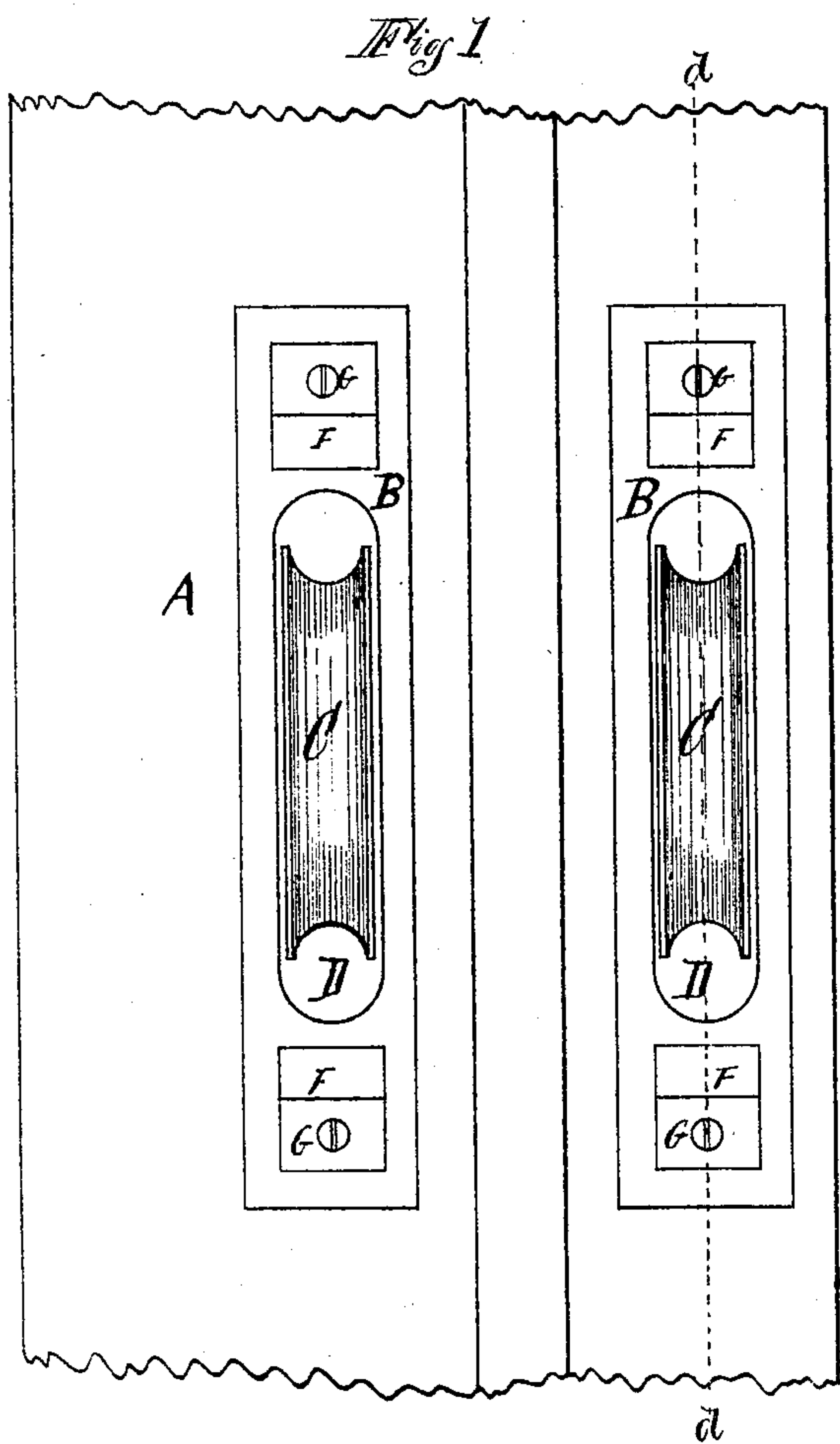


O. P. BRIGGS.

Improvement in Window-Sash Pulley.

No. 132,135.

Patented Oct. 15, 1872.



Witnesses  
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# UNITED STATES PATENT OFFICE.

ORLANDO P. BRIGGS, OF CHICAGO, ILLINOIS, ASSIGNOR TO C. W. RHODES  
AND LEWIS W. BRIGGS, OF SAME PLACE.

## IMPROVEMENT IN WINDOW-SASH PULLEYS.

Specification forming part of Letters Patent No. **132,135**, dated October 15, 1872.

*To all whom it may concern:*

Be it known that I, ORLANDO P. BRIGGS, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Window-Sash Pulleys; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable others skilled in the art to which my invention appertains to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a side view of a window-jamb casing with my said improvement attached thereto; Fig. 2 is a vertical transverse section taken on line *d d* drawn across Fig. 1, cutting my said improvement through the center; and Fig. 3 is a cross-section of my said improvement taken on line *e e* drawn across Fig. 2.

Similar letters of reference indicate like parts in the several figures of the drawing.

My invention relates to that class of pulleys over which the cord is passed for supporting the sash of a window, and has for its object to so form the frame holding the said pulley as to enable the same to be easily fitted within the jamb-casing either by hand or by machinery; and to that end the improvement consists in the detail construction of the said frame, whereby its ends or bearing-surface is made to describe the arc of a circle, through which the screws are passed in such a manner as to enter the casing at an angle oblique to the plane of its face, which will be more fully understood by the following description.

In the drawing, A represents the ordinary jamb-casing of a window, and B the frame supporting the pulley C. This frame is made of cast metal, and is provided with a mortise, D, within which the pulley is pivoted in such a manner as to freely revolve therein. The ends of said frame are so shaped as to describe the arc of a circle, as shown at E E, Fig. 2, and are provided with shoulders *a a*, which rest upon and against the shoulders of the mortise, by which a portion of the strain caused by the heft of the weight and sash is removed from the screws. The ends of this frame are each provided with a rectangular recess, F, as shown in Figs. 1 and 2. G G are the screws which pass through the curved or arc portion of the said frame from the recesses in such a manner as to enter the casing at an obtuse angle to the plane of its face, by which means the said frame is firmly secured to the casing and within the mortise.

Having thus described my invention, what I claim is as follows:

The frame B for supporting the pulley C, when said frame is provided with the rectangular recesses F F, and its ends so shaped as to describe the arc of a circle, through which the screws pass in such a manner as to enter the casing at an obtuse angle to the plane of its face, as described.

ORLANDO P. BRIGGS.

Witnesses:

N. H. SHERBURNE,  
CHARLES W. RHODES.