(Model.)

C. H. BAYLEY.

Sash Pulley.

No. 238,553. **Patented March 8, 1881.**

Fig:1.

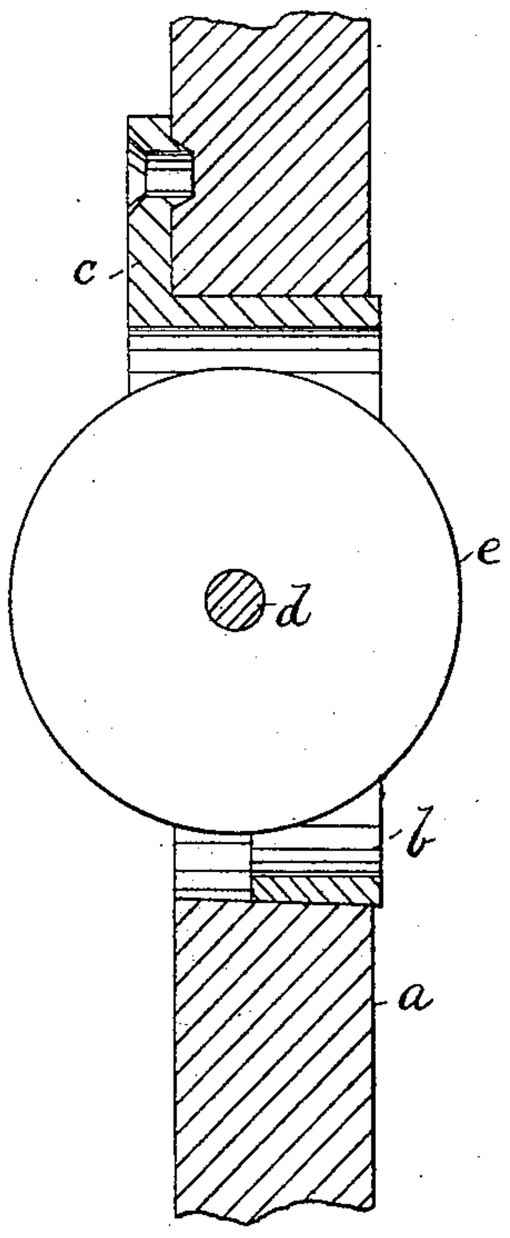


Fig:2.

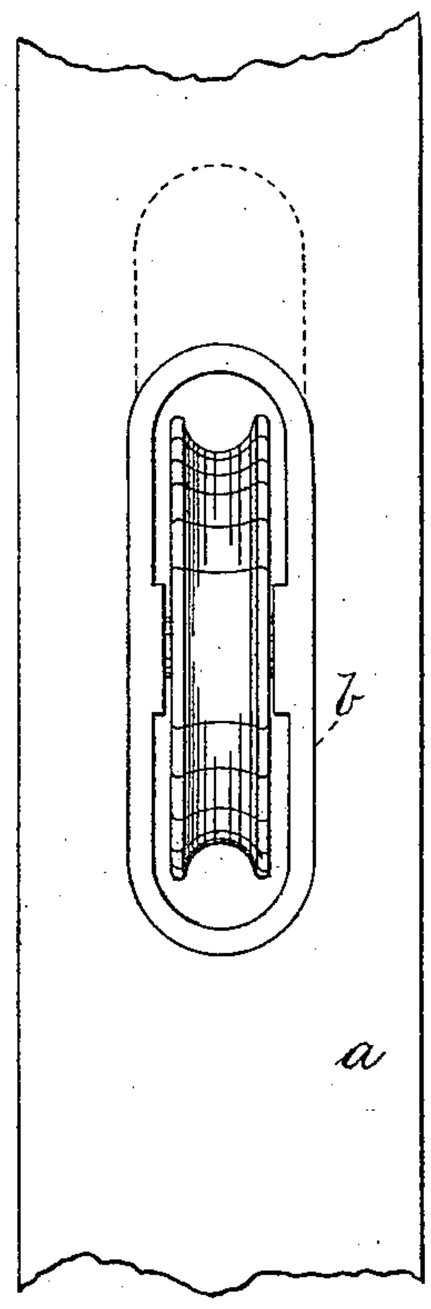
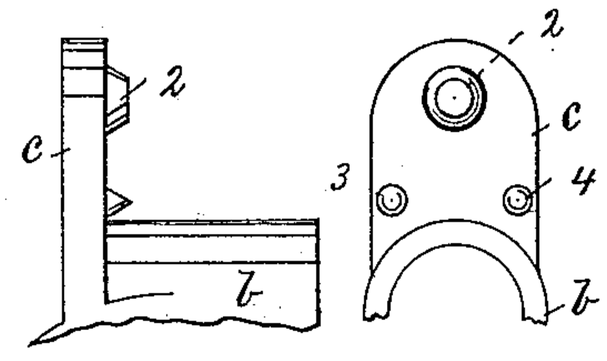


Fig:3.



Witnesses—

L. F. Connor.

Arthur Reynolds.

Inventor—

Charles H. Bayley

by Crosby & Gregory Attys

UNITED STATES PATENT OFFICE.

CHARLES H. BAYLEY, OF BOSTON, MASSACHUSETTS.

SASH-PULLEY.

SPECIFICATION forming part of Letters Patent No. 238,553, dated March 8, 1881.

Application filed December 8, 1880. (Model.)

To all whom it may concern:

Be it known that I, CHARLES H. BAYLEY, of Boston, county of Suffolk, and State of Massachusetts, have invented Improvements in Sash-Pulleys, of which the following description, in connection with the accompanying drawings, is a specification.

This invention in sash-pulleys has for its object the production of a pulley which may be fastened to the rear of the side frame of the window-casing, and thus avoid making or cutting into the front face of the said casing holes to receive the ears with which sash-pulleys are commonly provided.

With my improved sash-pulley herein described it is only necessary to make through the casing an opening of sufficient size to receive the shell of the pulley.

Figure 1 represents, in vertical section, the shell of one of my improved sash-pulleys applied to the casing-strip to hold it in place. Fig. 2 is a front view of the said casing with one of my sash-pulleys applied thereto, the dotted lines indicating the ear at the rear side of the casing; and Fig. 3 represents details of the said ear to show the three points or projections to bear against the casing.

In Figs. 1 and 2, *a* is supposed to represent a strip of wood forming part of the side of the window-frame next which the sash slides when being raised or lowered. I shall herein denominate the said strip as the "casing."

My sash-pulley has its body or shell *b* cast with a slight taper backward, its outer edge (shown in Fig. 2) being a little broader from outside to outside than its inner end, located within the casing, as at Fig. 1; or, in other words, the flat sides of the case taper, like a wedge, backward. The body or shell has one ear, *c*, adapted to bear against and be secured by a screw to the inner side of the casing. (See Fig. 1.) This ear, besides its screw-hole, the metal about which is extended backward to form teat 2, will preferably have two other teats, 3 and 4, the three forming contact-points with the rear side of the wood of the casing, acting like a tripod, and enabling the ear to be firmly seated on the casing. The shell has the pin *d* to support the roller or sheave *e*, all as usual.

To insert a pulley having a shell, *b*, with rounded ends, it is only necessary to bore two holes through the casing and cut away the material between them, which can be quickly done by machinery, and the pulley-case be inserted therein from the front side of the casing. The sash-pulley will be inserted into the casing at a time when the rear side of the casing is accessible to have a screw inserted through the ear *c*. The shell being made tapering, as described, prevents it from being pushed or drawn entirely through the casing to its rear side.

Cutting the face of the casing to receive and afford a nice fit for the ears of the ordinary sash-pulley is a slow and tedious operation, requiring much care and time, which is entirely obviated with a pulley such as herein described, and the absence of the ears at the front of the casing makes a better finish.

By making the projections 2 3 4 sharp they may be driven more or less into the back of the casing, to enable the front face of the shell *b* to stand flush with the front face of the casing, thus adapting the pulley to any variations in thickness of casing.

I claim—

1. As an improved article of manufacture, a sash-pulley provided at the rear side of its case with a single ear to bear against the rear side of the casing, such as described.

2. The sash-pulley having the flat sides of its shell or case tapered from the front backward toward the rear of the case or shell, and provided at its rear side with a single ear to bear against the casing, substantially as described.

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

CHARLES H. BAYLEY.

Witnesses:
G. W. GREGORY,
W. H. SIGSTON.