

O. S. GARRETSON.
SASH PULLEY.

No. 101,854.

Patented Apr. 12, 1870.

Fig. I.

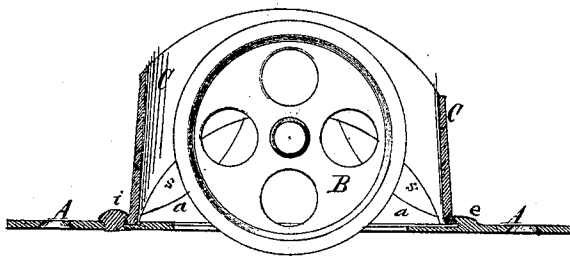
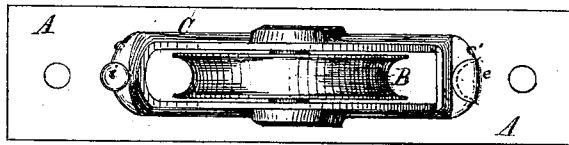


Fig. II.



Fig. III.



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WITNESSES.

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Letters Patent No. 101,854, dated April 12, 1870.

IMPROVEMENT IN SASH-PULLEYS.

The Schedule referred to in these Letters Patent and making part of the same.

I, OLIVER S. GARRETSON, of the city of Buffalo, in the county of Erie and State of New York, have invented a certain new and useful Improvement in Window-Pulleys; of which the following is a specification.

In the construction of window-pulleys the cap or case for the wheel is secured to the face-plate in various ways.

In some devices it is fastened to the face-plate by the same screws which secure the fixtures to the casing. In this case the parts of the pulley cannot be fastened together till the device is fitted in the sash, which occasions considerable inconvenience and waste of time in handling and putting up the pulleys.

Another method is to secure the parts together by two rivets, and a third by eyelets fitting in the holes for the screws which secure the pulley to the casing; the latter mode being described in a patent heretofore granted to me.

My improvement relates to a method of securing the cap to the face-plate, whereby only one rivet for the purpose is required.

The invention consists of a small lip projection cast with the face-plate, and arranged so as to overlap the edges of a base flange at one end of the cap arranged thereunder, while the opposite end of the cap is fastened by a rivet, as will be hereinafter fully described.

In the accompanying drawings—

Figure I is a vertical section of my improved pulley.

Figure II is a plan of the cap, detached.

Figure III a plan of the pulley complete.

Like letters designate like parts in each of the figures.

A is the face-plate cast with standards or side-portions, *a*, in which are formed the bearings of the wheel B.

C is the cap having the sides contiguous to the face-plate, recessed as shown, and cast with flanges, *c*, at each end of the base, which fit against the face-plate. These flanges are formed with notches, *c'* *c''*, having preferably beveled edges, as shown.

e is the lip cast with the face-plate, and so con-

structed and arranged as to fit in the notch *c'*, and overlap the edges thereof, whereby the cap at this end is secured against the face-plate, the notch preventing lateral displacement.

The opposite end of the cap is secured by a rivet, *i*, fitting in notch *c''*, as clearly represented in Figs. I and III.

Although I prefer to employ the notch *c'* to prevent lateral displacement of the cap, it is evident that the same result may be accomplished by casting the face-plate with the seat for the cap depressed, or by casting one or more indentations therein, to correspond with a tooth or spur cast on the contiguous base of the cap, or by means of a bead or other stop projecting from the face-plate at the sides of the cap.

The upper edges of the side portions *a* of the face-plate may be made to conform to the recess in the sides of the cap, or be made so as to leave openings *s s*, between the contiguous edges, as shown in Fig. I.

Where the cap is attached by means of two rivets, the flanges *c* are required to be made of sufficient width to enable the rivet-holes to be formed therein. This construction requires the face-plate to be made correspondingly longer, involving the use of more metal than would otherwise be needed, and producing a less compact article.

By the use of my improvement I avoid these objections and the extra labor of riveting, and am enabled to cast and put up the pulleys at a less cost; a slight saving in the manufacture of this and other light castings, which have to be sold at a low price, being a matter of importance.

What I claim as my invention is—

The arrangement of the lip *e* and rivet *i* with the flanges *c c*, so that a cap cast in one piece may be secured by a single rivet to the face-plate thereof, substantially as hereinbefore set forth.

OLIVER S. GARRETSON.

Witnesses:

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