No. 860,113.

PATENTED JULY 16, 1907.

L. ZAMBONI.

PULLEY FRAME.

APPLICATION FILED JULY 18, 1904.

FIG. I.

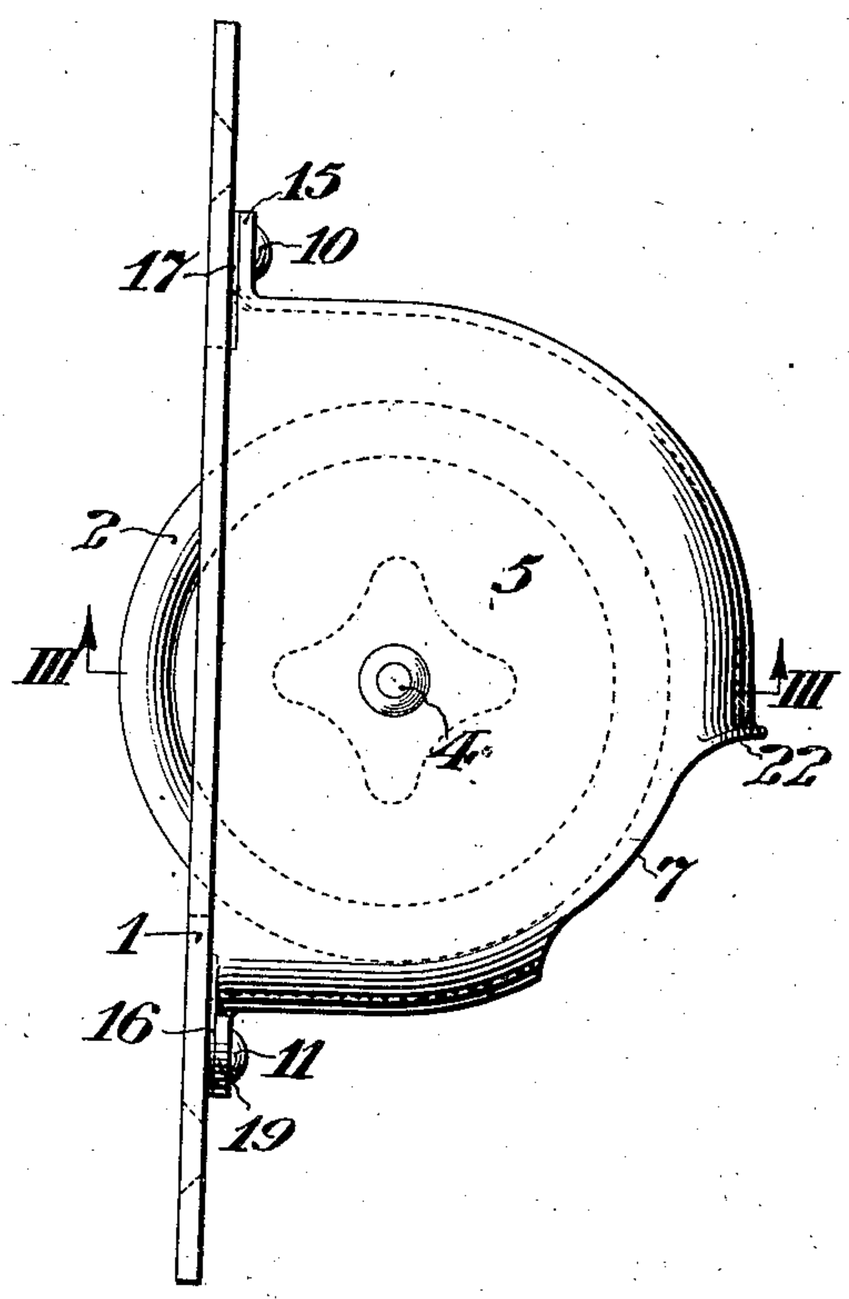


FIG. II.

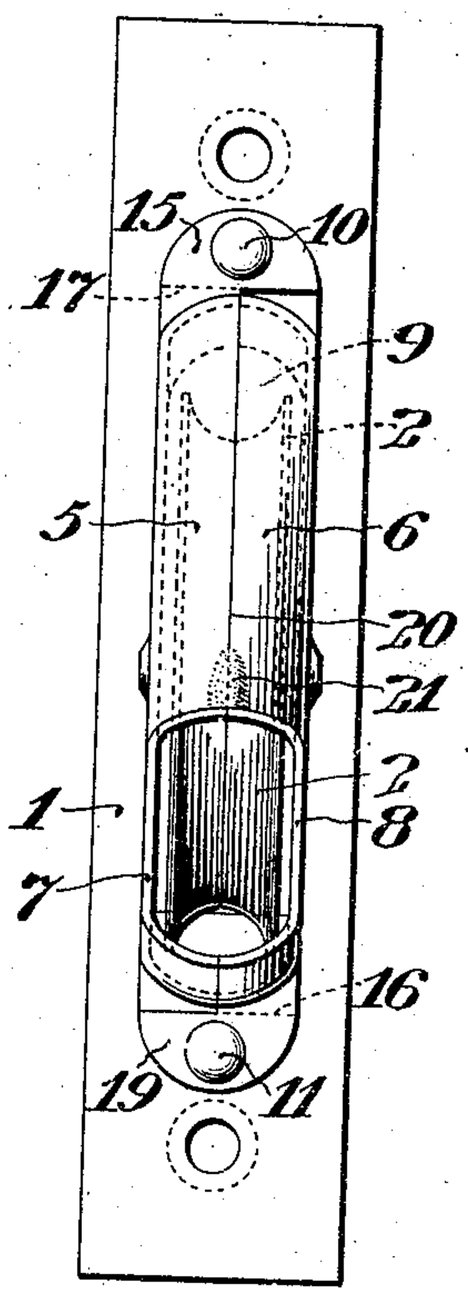


FIG. III.

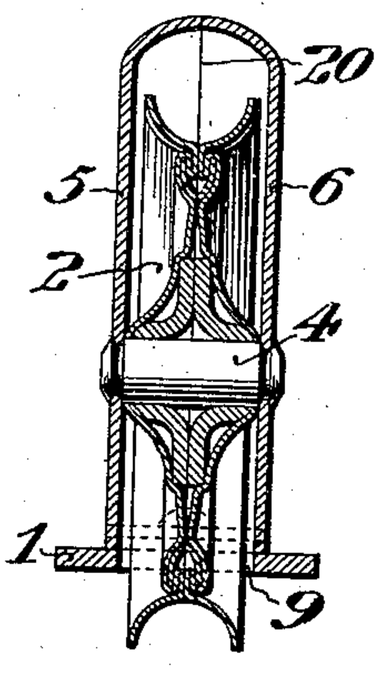


FIG. IV.

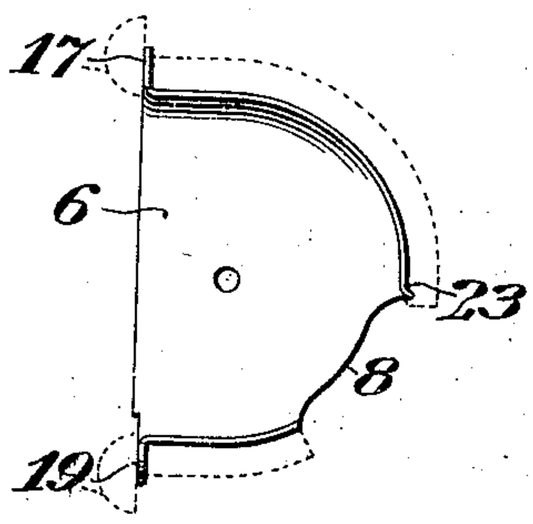
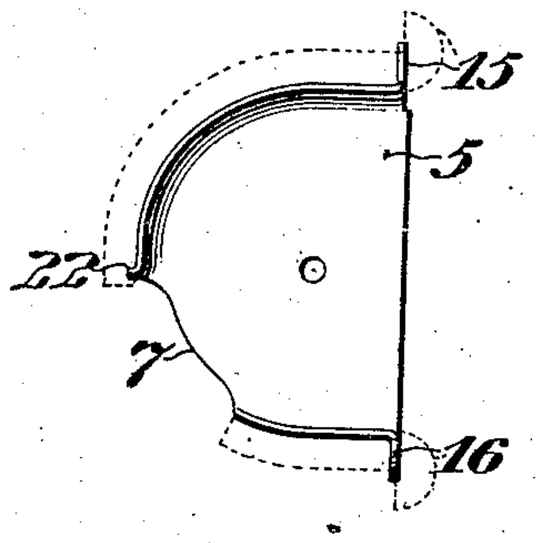


FIG. V.



WITNESSES:

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UNITED STATES PATENT OFFICE.

LAWRENCE ZAMBONI, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO THE AMERICAN PULLEY COMPANY, OF PHILADELPHIA, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA.

PULLEY-FRAME.

No. 860,113. Specification of Letters Patent. Patented July 16, 1907.

Application filed July 18, 1904. Serial No. 217,089.

To all whom it may concern:

Be it known that I, LAWRENCE ZAMBONI, of Philadelphia, in the State of Pennsylvania, have invented certain new and useful Improvements in Pulley-Frames, whereof the following is a specification, reference being had to the accompanying drawings.

My invention relates particularly to frames for window sash pulleys, and, it is the object of my invention to provide a frame of pressed sheet metal, which can be manufactured at less cost than the cast metal frames heretofore employed.

As hereinafter described my invention includes a frame comprising a face plate which is adapted to be set in the window jamb and to which is rigidly secured a pressed sheet metal casing inclosing a pulley and supporting a shaft upon which the pulley rotates. Said casing may be formed of two oppositely pressed pieces of sheet metal provided with lugs which overlap in engagement with rivets by which the casing is secured to the face plate.

My invention comprises the various novel features of construction and arrangement hereinafter more definitely specified.

In the drawings, Figure I, is a side elevation of a frame conveniently embodying my invention. Fig. II, is a rear elevation of said frame. Fig. III, is a sectional view, taken on the line III, III, in Fig. I. Figs. IV, and V, show the sheet metal blanks for the respectively opposite sides of the casing.

Referring to Figs. I, II and III; 1, is the face plate through which the pulley 2, projects, adjoining the sash whose cord is to extend over said pulley. Said pulley is mounted to rotate on the shaft 4, which extends through and is provided with rivet heads outside of the opposite members 5, and 6, which are pressed from sheet metal to form a casing having complementary curved flanges substantially concentric with said pulley inclosing said pulley and provided with registered recesses 7, and 8, through which the cord depends from the pulley within the window box. It may be noted that said curved flanges on the opposite casing members form a dust proof cover for the upper portion of the pulley 2. Said casing members 5, and 6, being rigidly connected by said shaft 4, are respectively provided with lugs to receive the rivets 10, and 11, and support the casing in rigid relation with the face plate 1. As shown in Figs. I, and II, the casing member 5, is provided with lugs 15, and 16, the former overlapping the lug 17, on the casing member 6, and, the lug 16, underlying the lug 19, on the casing member 6. Said casing members may also be connected at their junction 20, by solder 21, either local to said recesses 7 and 8, or extending throughout the curved perimeter of the casing.

It may be noted that as indicated in Fig. I, the recesses 7, and 8, in the casing members are provided with registered rounded margins 22, and 23, so that the sash cord will not be abraded if swung into contact therewith by the vibration of the sash weight.

Referring particularly to Fig. I, it may be noted that the shaft 4, is disposed eccentrically in relation to the height of the pulley casing, to afford a larger space above than below the pulley 2; for the reason that the cord extends over the pulley, and the desired room for the same is thus secured with the minimum amount of metal.

I do not desire to limit myself to the precise details of construction and arrangement herein specified, as various modifications may be made therein without departing from the essential features of my invention.

I claim:—

1. In a pulley frame, the combination with a face plate; of oppositely pressed sheet metal members forming a pulley casing; lugs on said casing members, extending parallel with said face plate and arranged to overlap each other; rivets, each extending through said face plate and through said lugs upon the respective casing members, connecting the same in rigid relation; a shaft in said casing, rigidly connecting its opposite members, comprising shoulders abutting against the inner faces of said members, and ends of less diameter entered through said casing members and riveted exterior thereto; and a pulley mounted to rotate in said casing on said shaft, substantially as set forth.

2. In a pulley frame, the combination with a face plate; of oppositely pressed sheet metal members forming a pulley casing.; each of said casing members having two lugs extending parallel with said face plate, in respectively different planes at the opposite ends thereof; means local to said lugs, connecting said face plate and casing in rigid relation; a shaft in said casing; and, a pulley mounted to rotate in said casing on said shaft, substantially as set forth.

In testimony whereof, I have hereunto signed my name at Philadelphia, Pennsylvania, this fourteenth day of July 1904.

LAWRENCE ZAMBONI.

Witnesses:
JOSEPH ENTWISLE,
CHARLES E. BRINLEY.