No. 796,573. PATENTED AUG. 8, 1905.

W. C. FISCHER.

SASH PULLEY FRAME.

APPLICATION FILED FEB. 13, 1905.

2 SHEETS—SHEET 1.

Fig. 1.

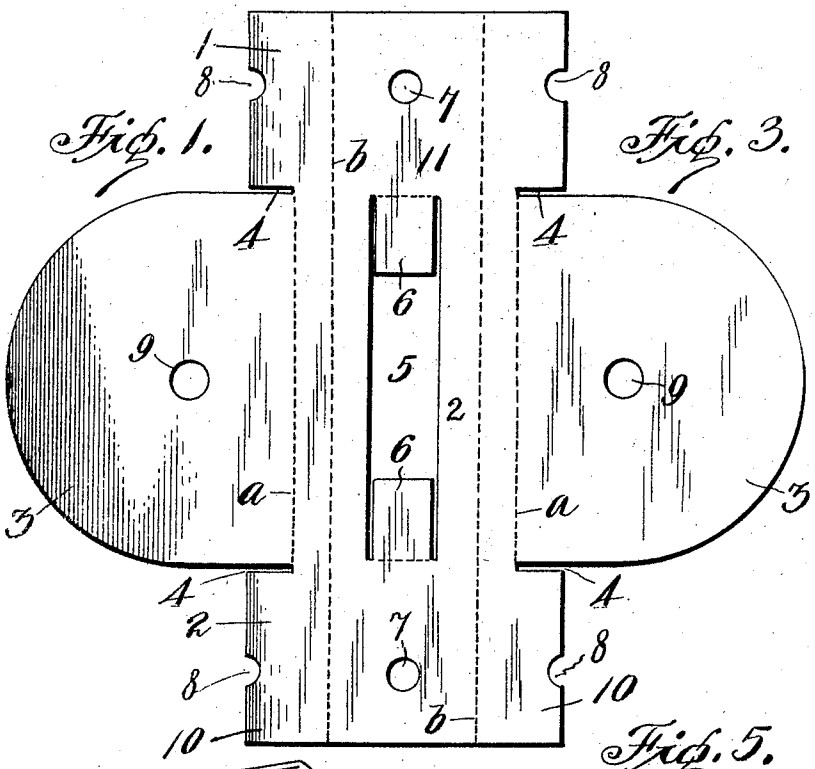


Fig. 3.

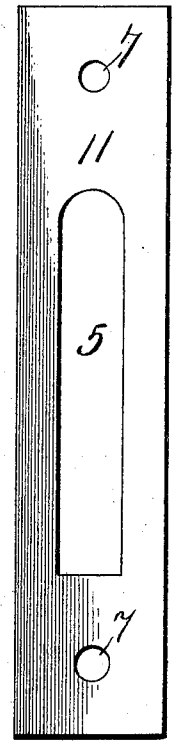


Fig. 5.

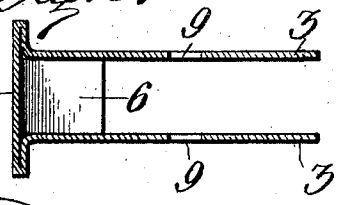


Fig. 4.

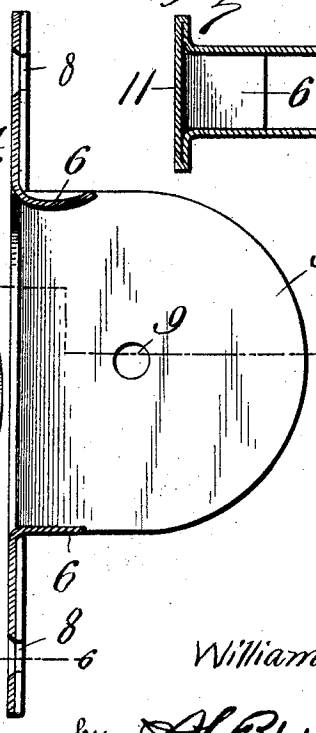


Fig. 2.

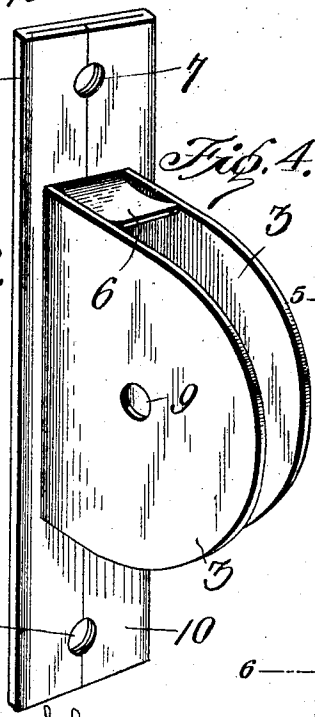
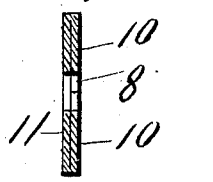


Fig. 6.



Witnesses
Jas A. Koehl.
P. H. Grieshaber.

Inventor
William C. Fischer.
by H. B. Wilson
Attorney

ANDREW B. GRAHAM CO., PHOTO-LITHOGRAPHERS, WASHINGTON, D. C.

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2 SHEETS—SHEET 2.

Fig. 7.

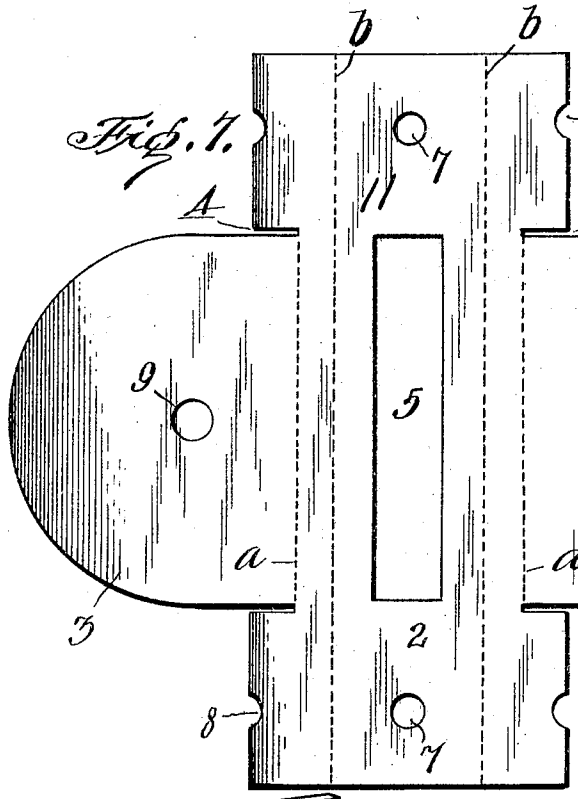


Fig. 9.

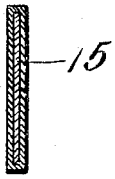


Fig. 10.

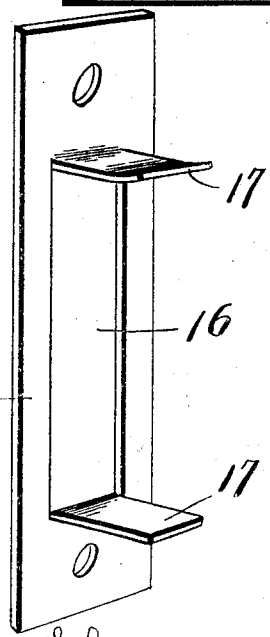
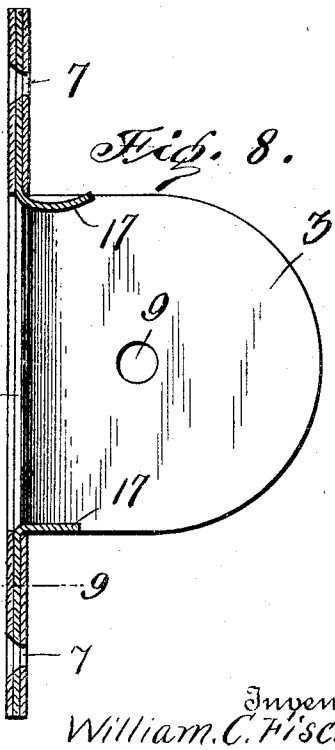


Fig. 8.



Witnesses
Jas. A. Koehl.
C. H. Griebauer.

Inventor
William C. Fischer.
by H. B. Wilson
Attorney

ANDREW. B. GRAHAM CO., PHOTO-LITHOGRAPHERS, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM CHARLES FISCHER, OF NEW YORK, N. Y.

SASH-PULLEY FRAME.

No. 796,573. Specification of Letters Patent. Patented Aug. 8, 1905.

Application filed February 13, 1905. Serial No. 245,478.

To all whom it may concern:

Be it known that I, WILLIAM CHARLES FISCHER, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Sash-Pulley Frames; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in frames or casings for pulleys, wheels, or the like, and more particularly for sash-pulleys.

The object of my invention is to reduce the cost of manufacture of devices of this character and at the same time make them stronger and more durable.

With the above and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a plan view of a blank from which my improved sash-pulley frame is formed. Fig. 2 is a perspective view of the finished frame looking toward the rear of the same. Fig. 3 is a front elevation of the frame. Fig. 4 is a vertical longitudinal sectional view. Figs. 5 and 6 are transverse horizontal sectional views taken, respectively, on the lines 5 5 and 6 6 in Fig. 4. Fig. 7 is a view similar to Fig. 1 of a modified form of my invention. Fig. 8 is a vertical longitudinal sectional view through the same. Fig. 9 is a horizontal sectional view taken on the line 9 9 in Fig. 8, and Fig. 10 is a perspective view of the stiffening-plate used in the form of my invention shown in Figs. 7, 8, and 9.

Referring now more particularly to Figs. 1 to 6, inclusive, of the drawings, the numeral 1 denotes a blank formed of a single piece of sheet metal consisting of a rectangular body portion 2, which has projecting outwardly from the center of each of its sides semicircular-shaped ears. In the body portion 2, above and below each of said ears, is formed a short transversely-extending slit 4, and in the central part of said body portion 2 in transverse alinement with the ears 3 is a longitudinally-extending slot or opening 5, which is substantially rectangular in form and which has in each of its ends inwardly-projecting tongues 6. In said body portion 2 above and below the ears 3 are openings 7 and recesses 8, which when the device is finished are adapted to receive screws or other fastening devices for securing the frame to a window-frame or the like. Formed in each of the ears 3 are openings 9, which when the device is finished are adapted to aline with each other and receive the journals of a pulley, wheel, or the like.

In forming the finished article shown in Fig. 2 of the drawings the ears 3 are first bent along the dotted lines *a a* (shown in Fig. 1) at right angles to the body portion 2 of the blank, and said portion is then folded along the lines *b b* in figure upon itself, as clearly shown in Fig. 6 of the drawings. When this is done, the side portions 10 of the rectangular body 2 lie upon the central portion 11 of said body and the recesses 8 aline with the openings 7. The ears 3 also assume a parallel relation and project at right angles to the folded rectangular body portion of the frame upon each side of its central slot 5, and the openings 9 in the ears 3 aline with each other, as seen in Fig. 5 of the drawings. The tongues 6 are then bent inwardly between the ears 3, and the upper one is preferably slightly curved, as shown. These tongues, particularly the upper one, are adapted to prevent the rope, chain, or other flexible connection passed over the pulley or wheel, which is journaled between the ears 3, from jumping off of the same, as will be readily understood.

It will be seen that the entire pulley-frame is formed of but a single piece of sheet metal, so that it may be quickly stamped and bent at a comparatively small cost. Owing to the fact that the rectangular body portion of the frame is formed by bending or doubling the side portions of the blank upon its central portion, the frame is materially strengthened.

Instead of forming the tongues 6 integrally with the frame 1 and with the body 2 and the frame of a single piece of metal I may form the same of two pieces, as shown in Figs. 7 to 10, inclusive, of the drawings. The body portion and the ears 3 of the frame are the same in this form of my invention as in the one first described, the only difference being that the tongues 6 are omitted. In this form of my invention in order to supply the ears or guards and also to strengthen the rectangular body portion of the frame I provide a rectangular stiffening-plate 15. (Shown in Fig. 10 of the drawings.) Said stiffening-plate is stamped from a single piece of metal and is formed with a central slot 16, which corresponds in

size to the slot 5 in the blank 1 and which has at each of its ends tongues 17, which correspond to the tongues 6. In forming the frame the body portion 2 of the blank is folded over and around the stiffening-plate 15, as will be readily understood upon reference to Figs. 7, 8, and 9 of the drawings. The stiffening-plate is formed with openings 18, which are adapted to aline with the openings 7 and 8, as shown. By employing this modified form of my invention the blank 1 may be made of thinner metal.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A pulley-frame made up of a blank comprising a substantially rectangular sheet of metal having a centrally-disposed longitudinal slot, a pair of outwardly-extending ears at its sides, slits in its sides at the edges of the ears, bearing-openings in the latter, centrally-disposed openings 7 near its ends and recesses 8 in its side edges, in line with said side openings, the sides of the blank being folded longitudinally causing the recesses 8 to register with the openings 7, and the ears being bent outwardly at the inner ends of the slits, to dispose the ears at the sides of the slot, so as to be parallel with each other and at right angles with the body of the said sheet, substantially as described.

2. A frame for sash-pulleys consisting of a piece of sheet metal stamped, bent and folded upon itself to form a rectangular body portion having a centrally-disposed slot and openings adapted to receive fastening devices and right-angularly-projecting parallel ears upon each side of said central slot formed with alining openings adapted to receive the journals of a pulley or the like, and a piece of sheet metal of rectangular form inserted in said folded body portion to stiffen the same and formed with an inwardly-bent tongue at each of its ends adapted to serve as guards for a rope or chain, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIAM CHARLES FISCHER.

Witnesses:

SAMUEL WILLIAMS,

ELLSWORTH M. BUCHANAN.