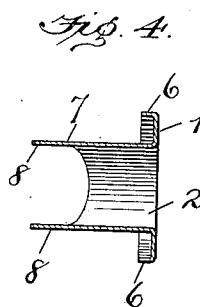
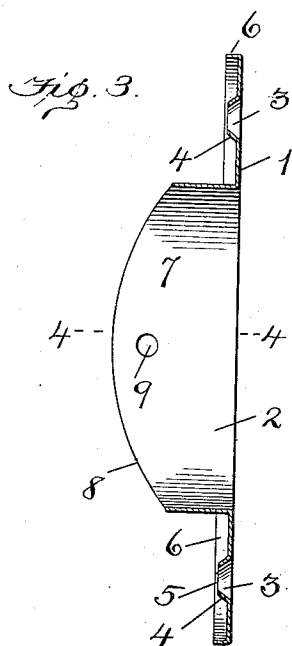
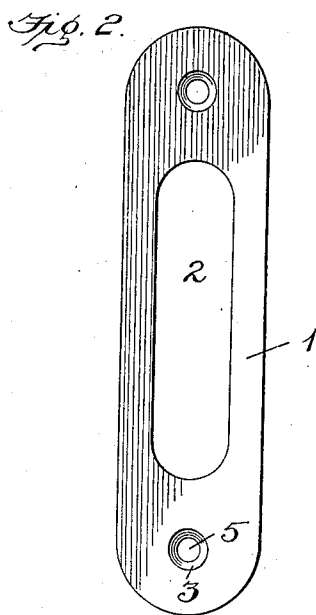
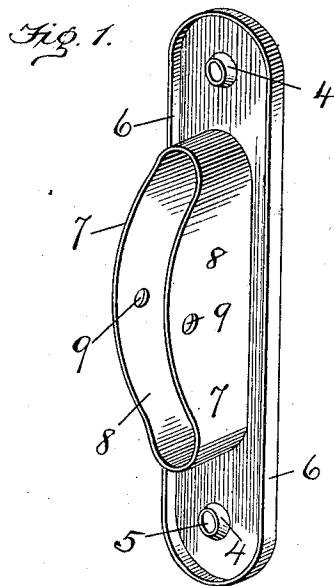


No. 898,275.

PATENTED SEPT. 8, 1908.

F. E. SLOAN.
SHEET METAL PULLEY CASING.
APPLICATION FILED JUNE 28, 1907.



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UNITED STATES PATENT OFFICE.

FRANCIS EUGENE SLOAN, OF BALTIMORE, MARYLAND.

SHEET-METAL PULLEY-CASING.

No. 898,275.

Specification of Letters Patent.

Patented Sept. 8, 1908.

Application filed June 28, 1907. Serial No. 381,195.

To all whom it may concern:

Be it known that I, FRANCIS EUGENE SLOAN, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Sheet-Metal Pulley-Casings, of which the following is a specification.

This invention relates to improvements in sheet metal pulley casings and has for its object to provide a simple and cheap casing for sash pulleys stamped from a blank of sheet metal and which will be strong and durable enough to meet the requirements of casings of this character.

Another object is to produce a casing of a single thickness of sheet metal and thus effect a saving in material as well as the expense of numerous mechanical operations in producing the article.

With these and other objects in view the invention is illustrated in the accompanying drawing in which,—

Figure 1, shows a rear perspective view of the improved sheet metal casing, Fig. 2, a front face view thereof, Fig. 3, a central longitudinal sectional view of the same, and Fig. 4, a horizontal cross-sectional view of the casing,—the section being taken on the line 4—4 of Fig. 3.

Referring to the drawing by numerals, 1, designates the outer face plate of the casing which is provided with a central slot, 2, through which the sash-weight cord may pass, and also having circular depressions, 3, adjacent each end of the slot which form projections, 4, at the inner side of the face plate. The central portion of each of said depressions is provided with an opening or perforation, 5, through which the retaining devices, such as screws, may pass to secure the casing in the frame.

The marginal edge of the face plate is provided with an turned flange, 6, which extends continuously around said plate and serves to reinforce and stiffen the plate to prevent the ends of the latter from curling or bending. In addition to the stiffening function, this flange, 6, will seat in the mortise which is usually provided to receive it and will thus conceal from view every portion of the inner surface of the face plate when in position in the frame.

A flange, 7, projects laterally from the inner surface of face plate and said flange extends continuously around the central slot of said plate and is concentric with the rim

flange, 6, but is of a greater width than said rim flange. This flange, 7, is formed by pressing and drawing the metal inwardly from the face plate to first produce a central cavity, and the drawing is continued until the flange is broad enough to form the parallel side walls, 8, between which the pulley is to be supported. After the flange is drawn to a sufficient width the bottom is punched out and the perforations, 9, are then made in the walls which serve as bearings for the pintle of the pulley.

It will be seen that the casing is formed from a single blank; that no part of the casing is of more than one thickness of metal, and that the inner central continuous flange and the outer continuous rim flange together so stiffen the casing, and particularly the face plate thereof, as to make a rigid, strong and durable article.

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

1. A sheet metal pulley casing formed from a single blank and having a face plate, and said casing being provided at its inner side with concentrically-projecting integral inner and outer flanges,—the inner flange being of a greater width than the outer flange and formed by metal displaced from the center of the face plate.

2. A sheet metal pulley casing stamped from a single blank and having a face plate with a continuous unbroken outer rim edge and a central opening and a continuous unbroken flange projecting laterally from the inner surface of said face plate around said opening and formed from metal that is displaced from said central opening.

3. A sheet-metal pulley casing formed from a single blank and having a face plate with an elongated pulley opening and also having pintle supporting flanges projecting inwardly from opposite longitudinal sides of said opening,—said flanges being formed by metal that has been drawn inwardly through the opening from the face plate.

4. A stamped-up sheet-metal pulley casing formed from a single blank and having a face plate with a continuous unbroken rim edge and an elongated central opening, and also having a longitudinal flange at the longer sides of the central opening of the face plate which project inwardly from the face plate, and said flanges being of a greater width than the width of the central opening be-

tween them, said flanges being formed by metal that is drawn from the face plate and displaced inwardly through the central opening thereof.

- 5 5. A sheet-metal pulley casing formed from a single blank having a face plate of a single thickness of metal with perforations in its ends and also having a central opening with pintle-supporting flanges projecting in-
10 wardly from the opposite longitudinal sides

of the central opening,—said pintle-supporting flanges being formed from metal that has been displaced from the face plate and forced inwardly through the central opening.

In testimony whereof I affix my signature 15
in presence of two witnesses.

FRANCIS EUGENE SLOAN.

Witnesses:

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CHAS. B. MANN.