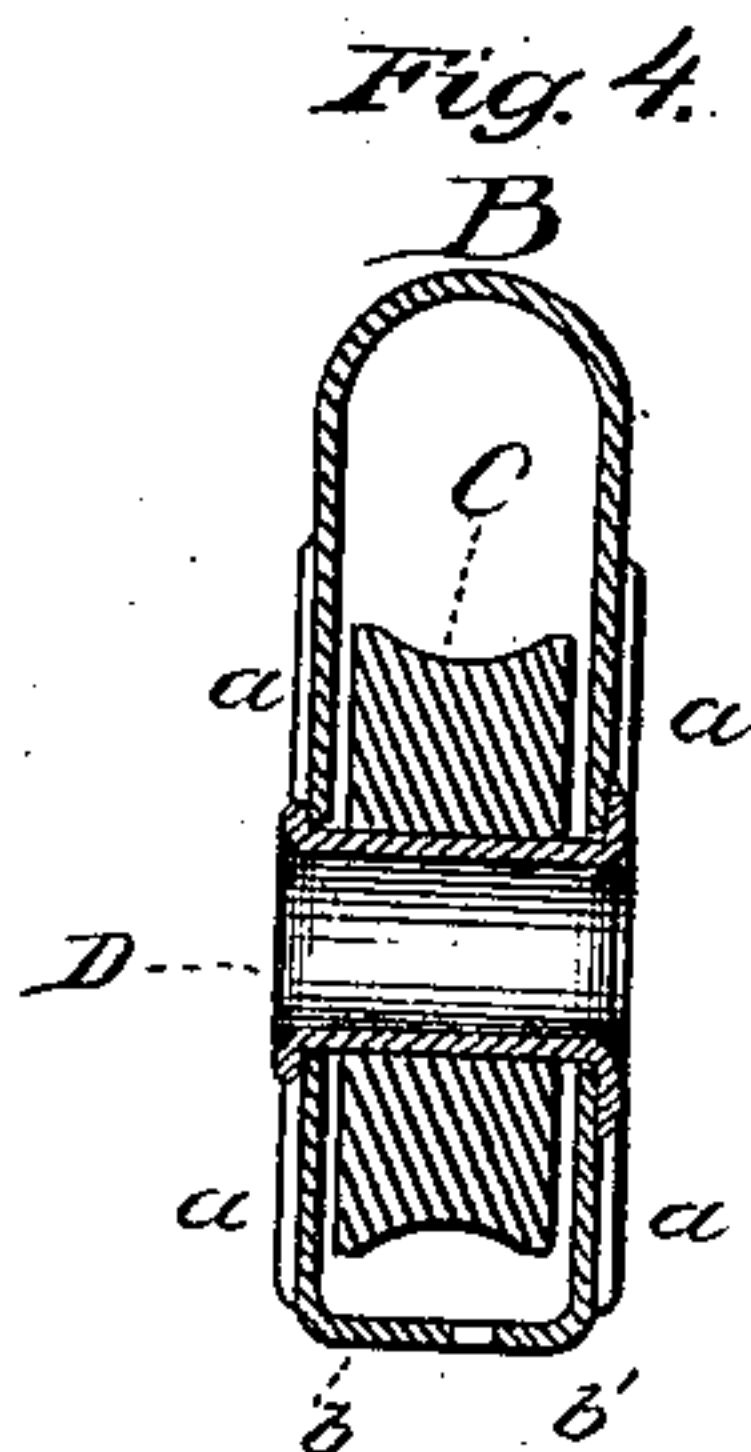
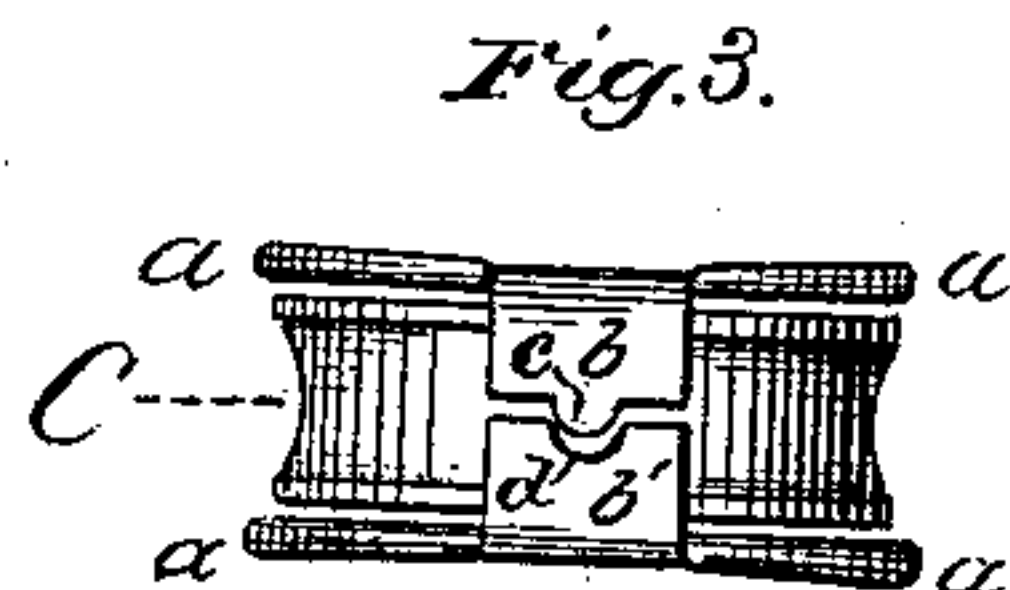
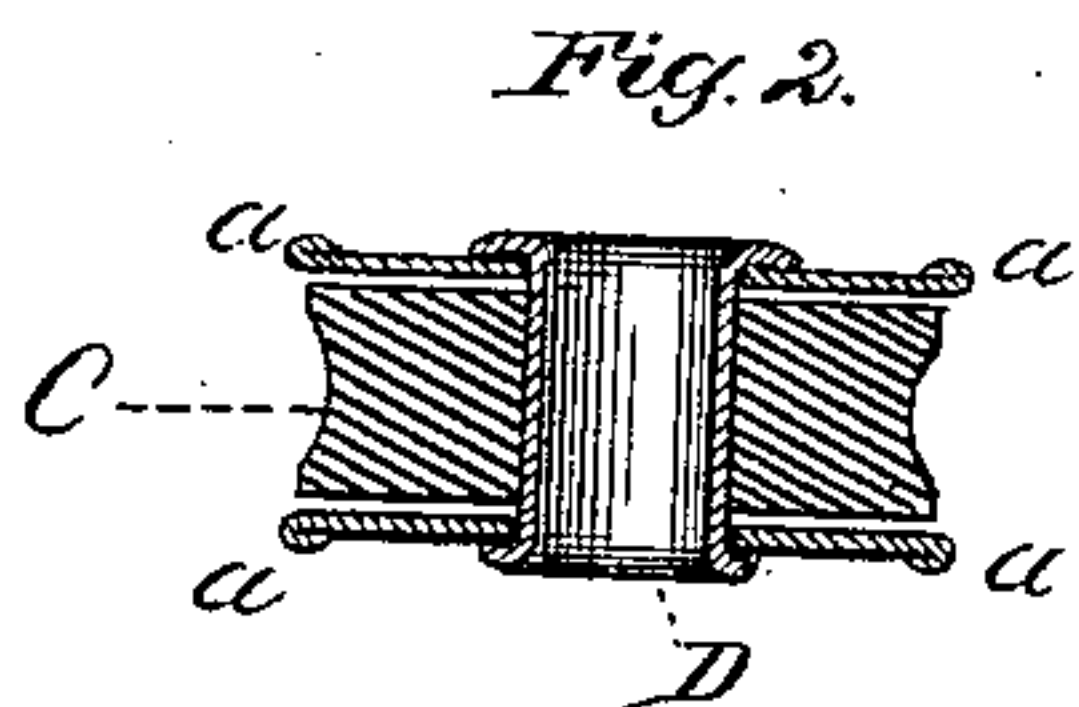
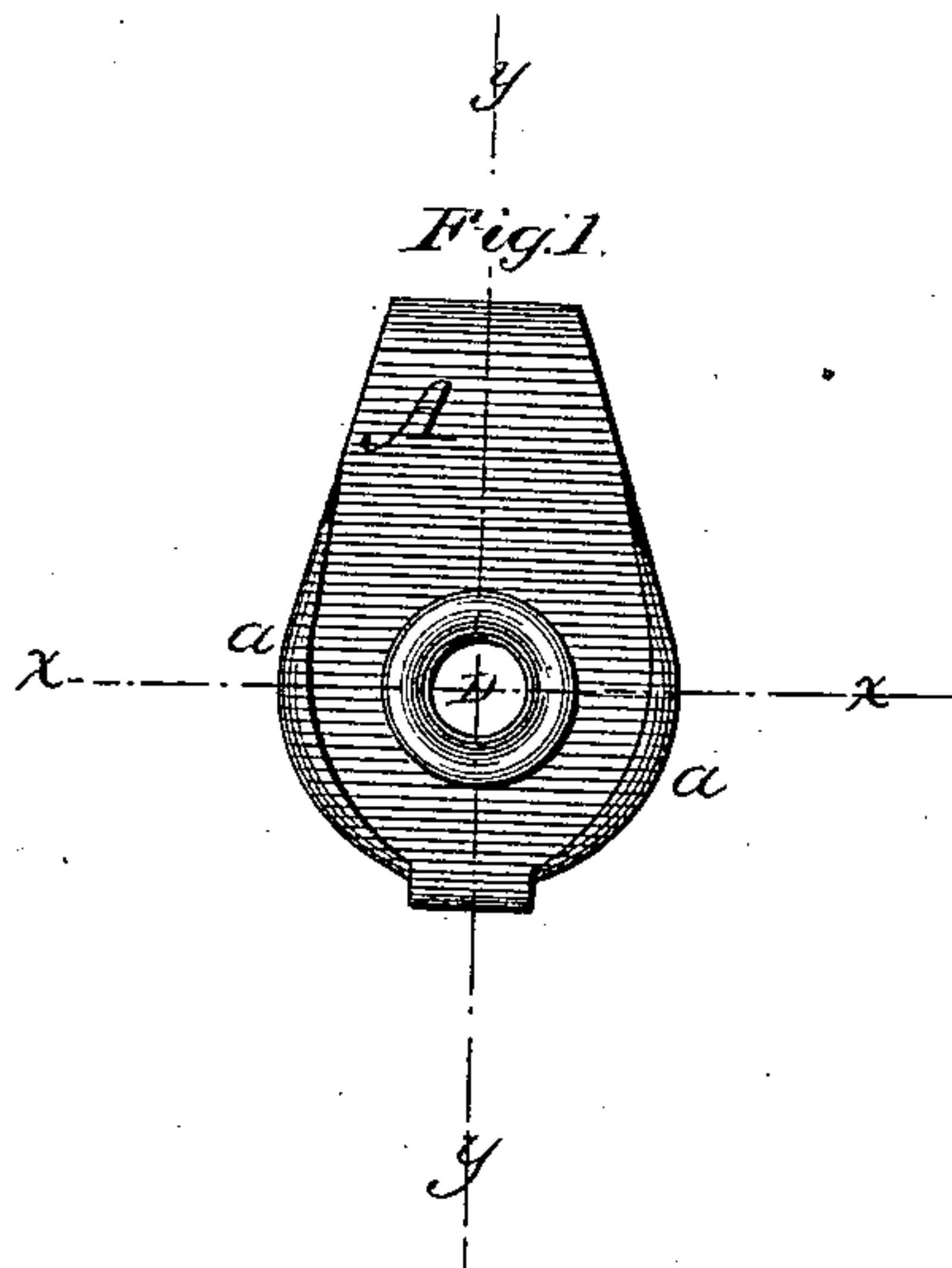


(No Model.)

T. O. POTTER.
Metallic Housing for Suspender-Pulleys.
No. 226,928. Patented April 27, 1880.



WITNESSES

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THOMAS OTIS POTTER, OF BOSTON, MASSACHUSETTS.

METALLIC HOUSING FOR SUSPENDER-PULLEYS.

SPECIFICATION forming part of Letters Patent No. 226,928, dated April 27, 1880.

Application filed March 20, 1880. (No model.)

To all whom it may concern:

Be it known that I, THOMAS OTIS POTTER, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented new and useful Improvements in Metallic Housings for Suspender-Pulleys, of which the following is a specification.

My invention relates to certain improvements in metallic housings for pulleys of suspender-trimmings.

It has for its objects to prevent the cutting and abrading of the cords passing over the pulleys, and also the usual binding of the housing against the sides of the pulley and the twisting of the bearing; and with these objects in view my invention consists of a metallic housing the outer edges of which are turned over upon the body, whereby a smooth rounded surface is produced, and the metal at the same time strengthened and stiffened; and my invention further consists in providing the free ends of the housing with short ears adapted to abut against each other and limit the movement of the sides of the housing toward the pulley, as will be hereinafter more fully set forth.

In order that those skilled may fully understand my invention, I will proceed to describe it in detail, referring by letters to the accompanying drawings, in which—

Figure 1 is a side view of my improved housing, confining in place a pulley. Fig. 2 is a cross-section at the line *x x*, Fig. 1. Fig. 3 is a bottom view, and Fig. 4 is a central vertical section at the line *y y* of Fig. 1.

Similar letters indicate like parts in the several figures.

A is a piece of sheet metal, bent at B to form a hook or ring support. The sides are curved or extended outwardly, as shown at Fig. 1, to conceal and protect the pulley C, which is pivoted in place, preferably, by an eyelet-journal, D.

The edges of the sheet metal are turned back upon the body, as clearly shown at *a a*, which produces a stiffening and strengthening rib, the exterior edge of which has necessarily a rounded smooth finish in contradistinction to the right-angled sharp edges of the housings as at present made.

The lower free ends of the two sides terminate in short ears *b b'*, which are bent at right angles, as clearly shown at Figs. 3 and 4.

I preferably form the ear *b* with a short round tongue, *c*, and the ear *b'* with a corresponding groove, *d*, which serve to properly guide the ears *b b'*, so as to abut each other, and which also serve to prevent any lateral movement of the sides of the housing.

From this construction it will be observed that the sides of the housing cannot approach each other near enough to impinge the sides of the pulley C, and the tongue and groove *c d* successfully prevent any twisting or binding of the bearing D.

I am aware, of course, that metallic housings made of a single piece of sheet metal are not new; and I am also aware that those portions of the edges which are likely to come in contact with a cord traveling over the pulley have been flared outwardly to protect the cord, and I do not wish to be considered as laying claim to any such construction, and at the same time I do not wish to limit myself to the construction of the housing from a single piece of metal, which I have preferably shown in the drawings; but

What I do claim as new, and desire to secure by Letters Patent, is—

1. A sheet-metal housing for pulleys of suspender-trimmings having the edges turned back upon the body, so as to produce a smooth rounded surface, substantially as and for the purpose described.

2. In a suspender-pulley housing, the ears *b b'*, formed on the lower ends, and bent up to abut against each other, as and for the purpose hereinbefore set forth.

3. The ears *b b'*, formed with the tongue and groove *c d*, substantially as and for the purpose set forth.

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

THOMAS OTIS POTTER.

Witnesses:

GEORGE BILLIARD,
JOHN S. BRAMAN.