(No Model.)

O. R. OLSEN.

PULLEY.

No. 280,228. Patented June 26, 1883.

Fig. 1.

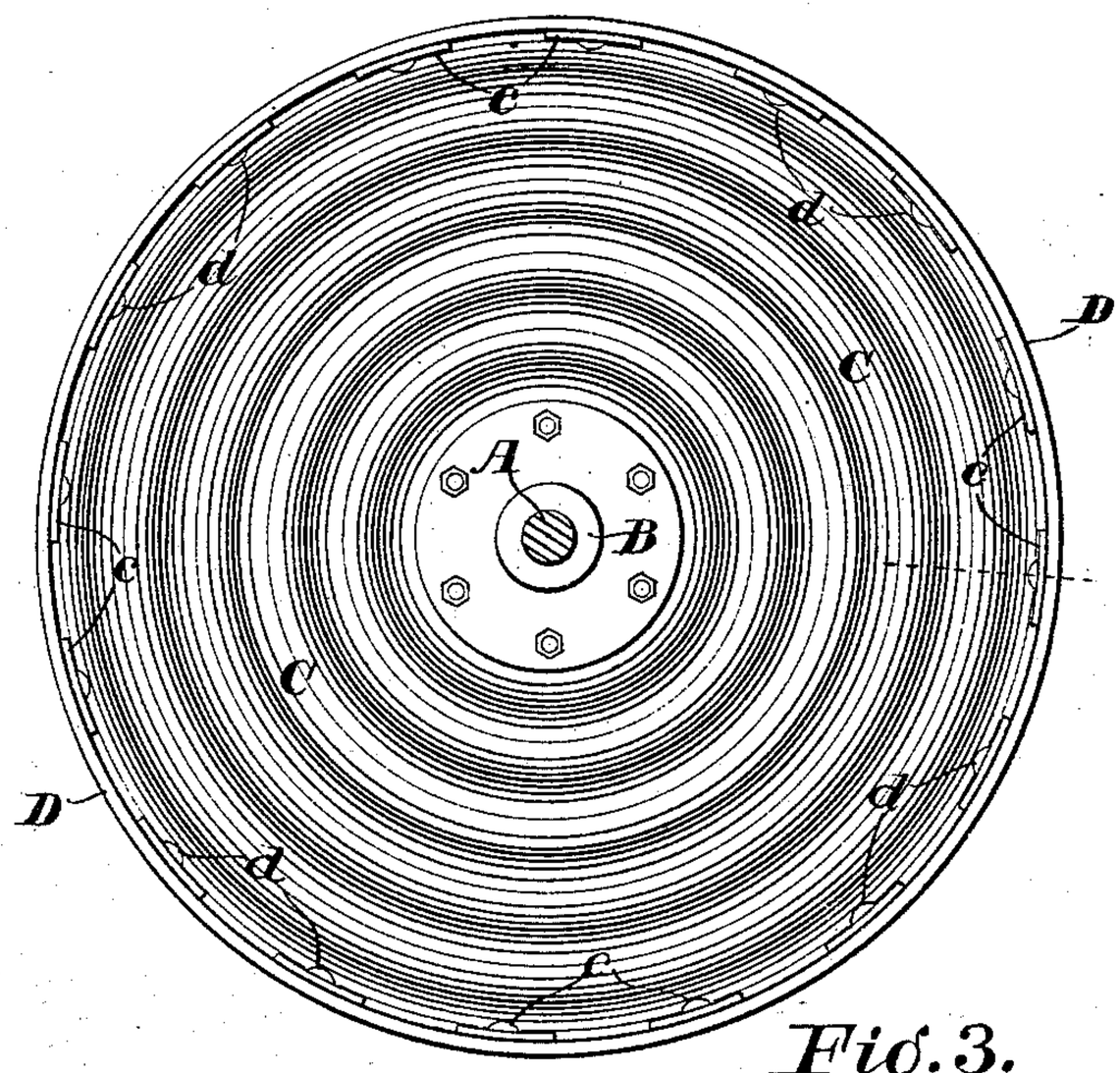


Fig. 2.

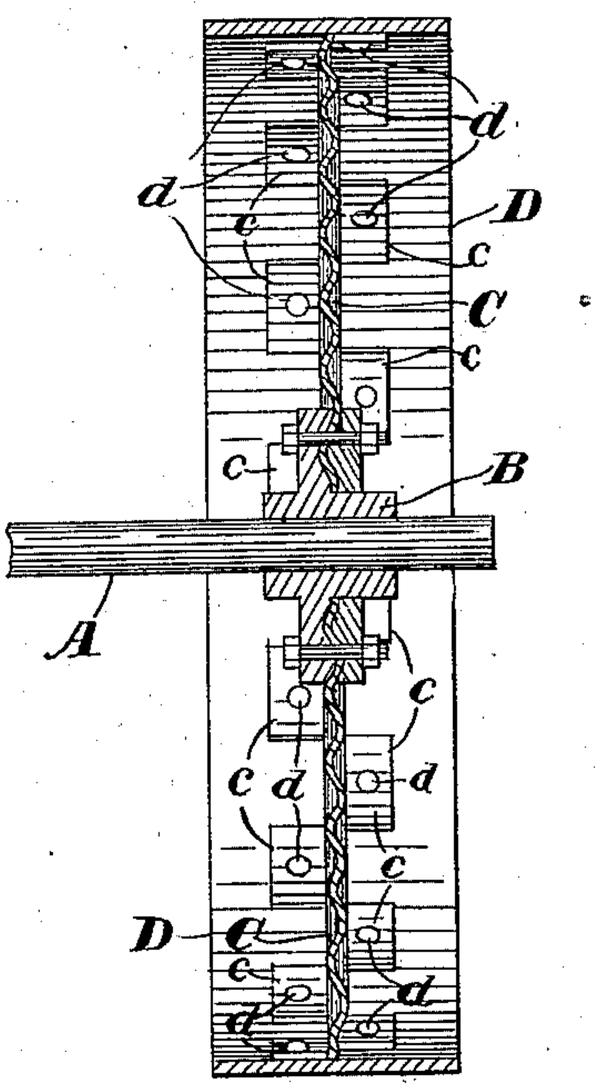
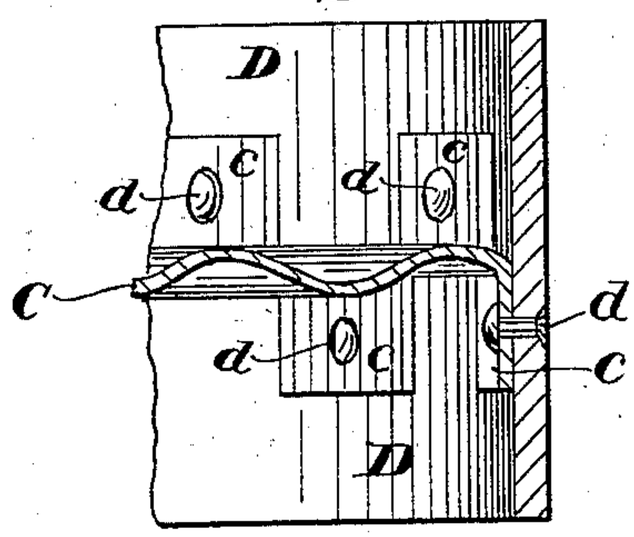


Fig. 3.



WITNESSES.

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OLAF R. OLSEN, OF INDIANAPOLIS, IND., ASSIGNOR TO THE INDIANAPOLIS MACHINE AND BOLT WORKS, OF SAME PLACE.

PULLEY.

SPECIFICATION forming part of Letters Patent No. 280,228, dated June 26, 1883.

Application filed May 21, 1883. (No model.)

To all whom it may concern:

Be it known that I, OLAF R. OLSEN, of the city of Indianapolis, county of Marion, and State of Indiana, have invented certain new and useful Improvements in Pulleys, of which the following is a specification.

My said invention relates to that class of pulleys the webs of which are constructed of sheet metal; and it consists in forming upon such webs ears or flanges which are integral therewith, as a means of connecting said webs to the rims, as will be hereinafter more particularly described.

Referring to the accompanying drawings, which are made a part hereof, and on which similar letters of reference indicate similar parts, Figure 1 is a side elevation of such a pulley embodying my present invention; Fig. 2, a central vertical section of the same, and Fig. 3 a detail view of the fastening on an enlarged scale.

In said drawings, the portions marked A represent the shaft on which the pulley is mounted; B, the hub; C, the web, and D the rim.

The hub B is mounted on the shaft A in the ordinary manner, and, except in being corrugated to fit the corrugated sheet-metal web, is of a well-known form. The corrugations on one are formed to fit into those of the other, so as to clamp the web tightly when said web is placed between them.

The web C is made of any kind of sheet metal desired, a light tough sheet-steel being deemed preferable, and is corrugated for the purpose of stiffening it. It has the ears or flanges *c* formed on the edge and bent out each way, to fit against the under side of the rim. These ears are manifestly very much superior to angle-irons in the matter of durability and cheapness, as such angle-irons must be not only formed separately, but also riveted separately to the sheet-metal web, and the strain will then come upon the small portions of metal covered by the rivets instead of upon the whole size of the ears, as in my invention. The rim, however, is necessarily secured to these ears by rivets; but there is not the same strain on these rivets as on rivets passing through the web, the rim being of stiffer material, and therefore forming a firmer support. Besides, the strain comes in a different direction, and one which is less liable to tear loose the fastenings.

The rim D is an ordinary sheet or hoop metal rim, and is secured to the web C by means of the ears *c* and rivets *d*, as before indicated.

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

1. In a pulley the web of which is composed of sheet metal, the ears *c*, formed integrally with said web, and serving as a means of fastening the same to the rim, substantially as set forth.

2. In a pulley, the combination of a sheet-metal web, C, having ears *c* formed integrally therewith and extending out at right angles on each side thereof, and the rim D, secured to said web by means of said ears and the rivets *d*, substantially as shown and specified.

In witness whereof I have hereunto set my hand and seal, at Indianapolis, Indiana, this 18th day of May, A. D. 1883.

OLAF RYE OLSEN. [L. S.]

In presence of—
C. BRADFORD,
CHAS. L. THURBER.