R. E. DUNHAM.

DEMOUNTABLE ROLLER SECTION FOR LAND ROLLERS AND THE LIKE.

APPLICATION FILED NOV. 24, 1913.

1,155,304.

Patented Sept. 28, 1915.

Fig. 1.

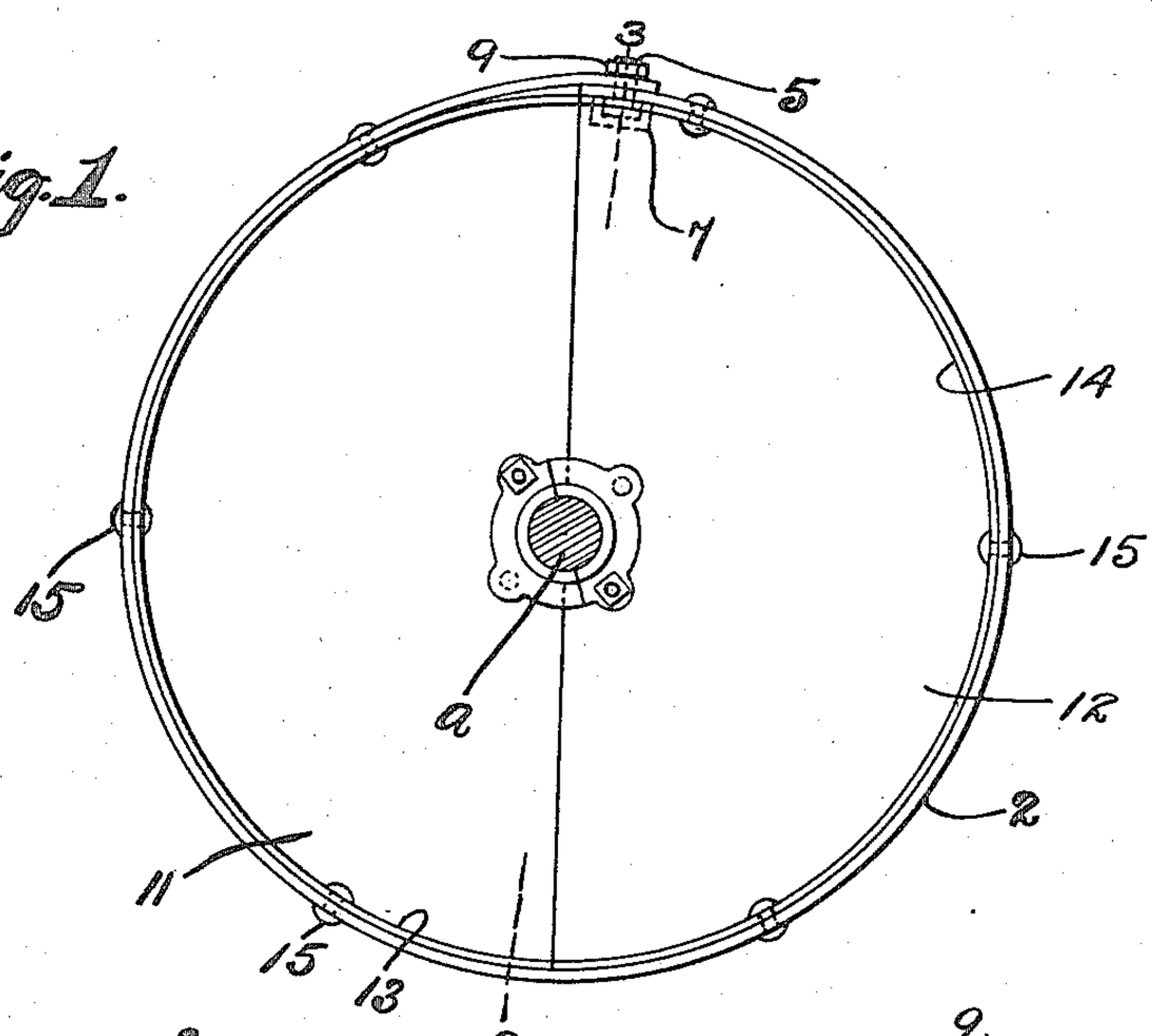


Fig. 2.

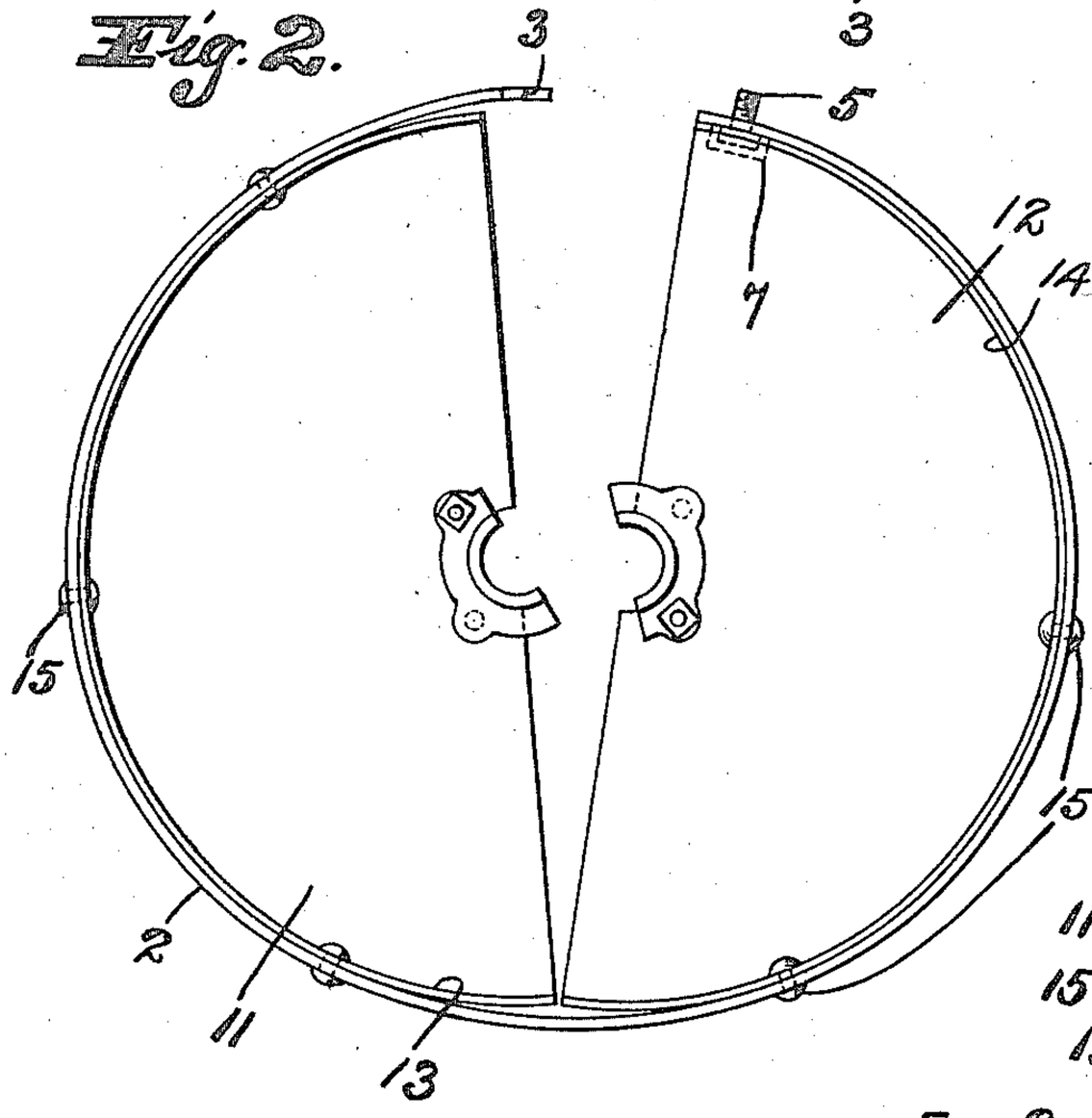
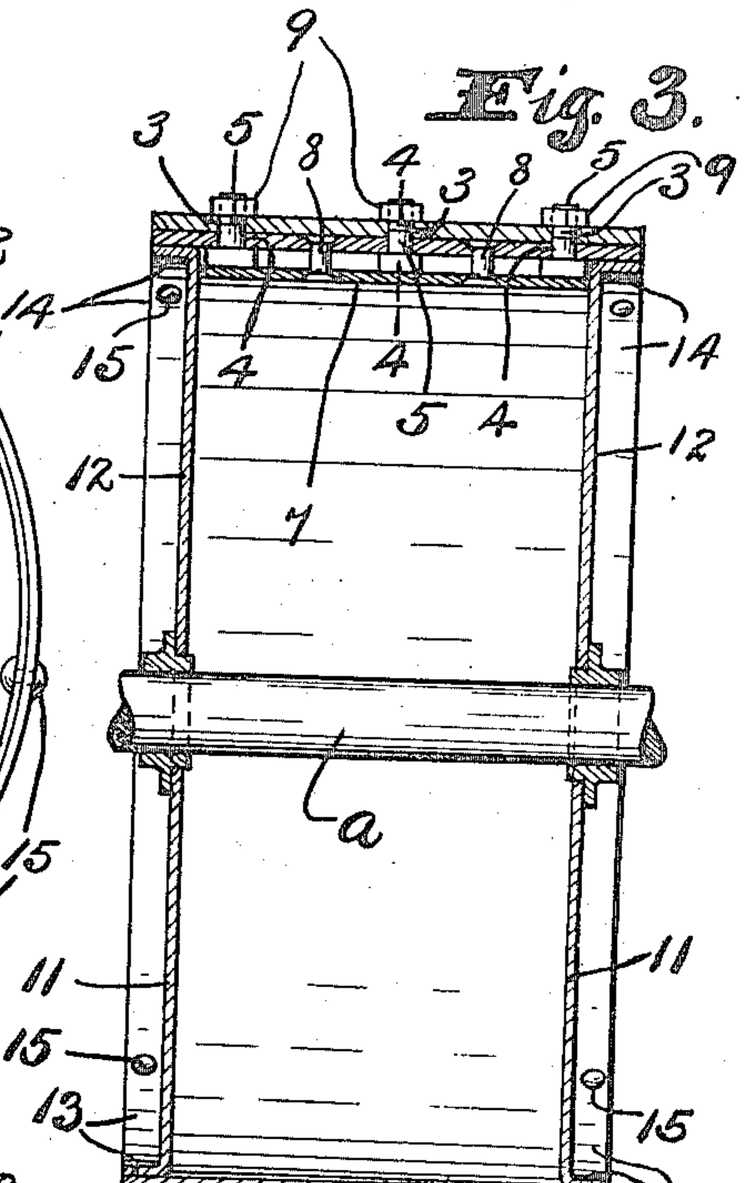


Fig. 3.



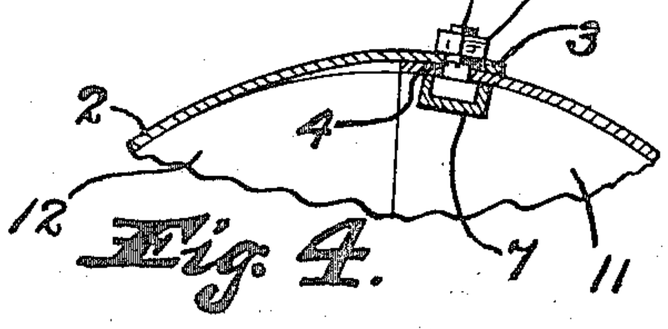


Fig. 4.

Witnesses:
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UNITED STATES PATENT OFFICE.

RAY E. DUNHAM, OF BEREA, OHIO.

DEMOUNTABLE ROLLER-SECTION FOR LAND-ROLLERS AND THE LIKE.

1,155,304. Specification of Letters Patent. Patented Sept. 28, 1915.

Application filed November 24, 1913. Serial No. 802,675.

To all whom it may concern:

Be it known that I, RAY E. DUNHAM, a citizen of the United States of America, residing at Berea, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Demountable Roller-Sections for Land-Rollers and the like; and I hereby 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 pertains to make and use the same.

This invention relates to demountable drums for pulleys, land-rollers and the like.

One object of this invention is to provide a drum which can be readily removed from or placed on a shaft or axle without disturbing other drums which may be mounted on the said shaft or axle.

More particularly the object of this invention is to provide a drum suitable for forming the central section of a land-roller and having such an arrangement of parts that it may be readily removed from the axle of the land-roller when it is desirable to have an open space between the end sections of the land-roller.

With these objects in view, and with the intention of securing other advantages which will hereinafter appear, my invention consists in the features of construction and combination of parts, hereinafter described in the specification, particularly pointed out in the claims and illustrated in the accompanying drawings.

Referring to the accompanying drawings, Figure 1 is an end view of a drum embodying my invention mounted on a shaft or axle. Fig. 2 is an end view of the same removed from the shaft. Fig. 3 is a section on line 3—3, Fig. 1. Fig. 4 is a section on line 4—4, Fig. 3.

Again referring to the drawings, 2 represents the body of the drum which is formed from a single piece of sheet metal rolled in the form of a cylinder. One edge of said sheet is arranged to overlap the other edge and in the overlapping edge are formed a series of bolt-holes 3 and in the edge which extends under the overlapping edge are formed a series of bolt-holes 4 arranged to register with the bolt-holes 3. Bolts 5 are passed through the bolt-holes 4 and in order to hold said bolts from falling out and also to prevent them from turning a section of channel iron 7 is secured to the inner face of the drum over the heads of the said bolts, so as to snugly receive the heads of the said bolts. This channel iron 7 is preferably held in position by means of rivets shown at 8. In order to secure the two edges of the drum together the edge which carries the bolt-holes 3 is sprung over the ends of the bolts so that the ends of the bolts pass through said openings 3, and nuts 9 are then secured on the outer ends of said bolts thereby securely fastening the edges of the drum together. At each end of the drum 2 is arranged a head which consists of two semi-circular members, shown at 11 and 12. Each member is provided with a flange, shown at 13 and 14 respectively, and rivets 15 are passed through said flanges and through the body of the drum whereby said members are securely fastened to the body of the drum but independently of each other. In each member of the said head at the meeting edges thereof at the center, is formed a semi-circular opening and when the said members are brought together the semi-circular openings form a single circular opening to receive a shaft *a*.

Around each semi-circular opening is arranged a semi-circular bearing and each semi-circular bearing is secured on the member which carries it so that one end of the bearing projects beyond the edge of said member and, therefore, when the said members are placed together the bearing on each member will overlap the other member and thereby prevent lateral shifting of the said members.

When it is desired to mount one of my improved drums on a shaft or dismount it from a shaft the nuts 9 are removed from the ends of the bolts 5. The overlapping edge of the drum is then disengaged from the bolts so that the two edges can be swung apart as shown in Fig. 2. The flexible sheet metal which forms the body of the drum readily bends at the point opposite the edges and serves as a hinge which enables the members of the heads to be separated a sufficient distance to permit the passage of the shaft into or out of the said semi-circular bearings in said members.

What I claim is,—

A demountable drum comprising a cylinder formed of a sheet of flexible material, one edge of said sheet being arranged to overlap the other edge, said edges being provided with registering bolt holes, bolts ar-

ranged in said bolt holes with their heads on the inside of the drum, a channel iron arranged on the inner face of the drum over the heads of the said bolts, nuts arranged on the outer ends of said bolts and heads arranged at each end of said cylinder, each head comprising a pair of semi-circular members, said members being secured to the cylinder so that each member occupies a position intermediate of one of the meeting edges of the cylinder and a point diametrically opposite to the meeting edge, each member having a semi-circular opening at the center of the straight edge thereof, said openings being adapted to register with each other when said members are placed together to form a head.

In testimony whereof, I sign the foregoing specification, in the presence of two witnesses.

RAY E. DUNHAM.

Witnesses:
W. F. CARLISLE,
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