

W. R. CANADAY.
LAND ROLLER.
APPLICATION FILED JAN. 7, 1910.

962,311.

Patented June 21, 1910.

fig-2-

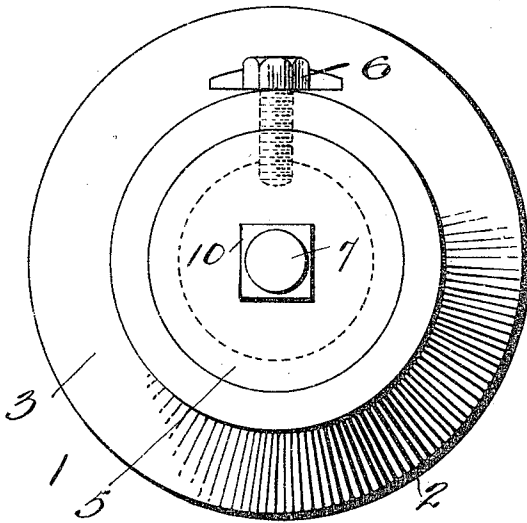


fig-3-

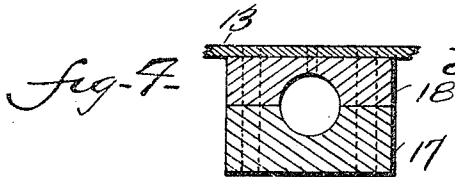
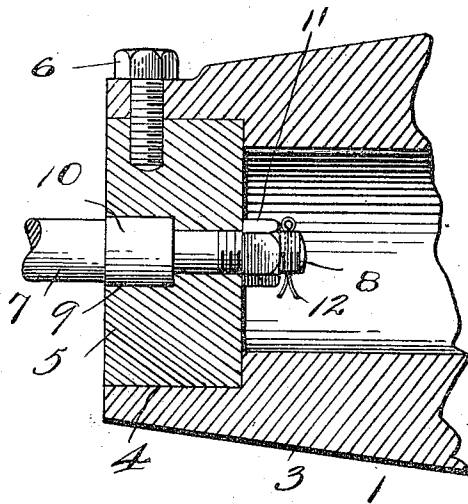


fig-5-

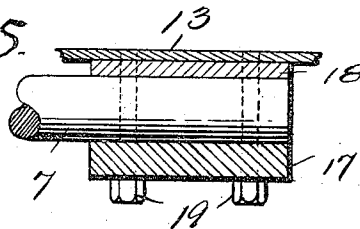
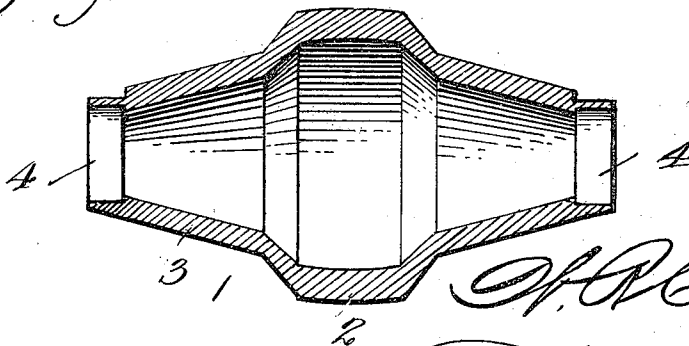


fig-1



Witnesses

L. Cloud Newman.
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UNITED STATES PATENT OFFICE.

WILLIAM R. CANADAY, OF FAIRVIEW, OKLAHOMA, ASSIGNOR OF ONE-HALF TO
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LAND-ROLLER.

962,311.

Specification of Letters Patent. Patented June 21, 1910.

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To all whom it may concern:

Be it known that I, WILLIAM R. CANADAY, a citizen of the United States, residing at Fairview, in the county of Major and State of Oklahoma, have invented certain new and useful Improvements in Land-Rollers, of which the following is a specification.

The present invention relates to improvements in land rollers and involves certain novel features of construction therein as will be hereinafter pointed out.

The object of the invention is the provision of an apparatus or vehicle of this character which will perform the functions of an implement of this type, and which is comparatively cheap in first cost, inexpensive of maintenance, and not likely to become disarranged, as the elements constituting the whole are few in parts and compactly and firmly arranged.

The invention consists in certain novel features of construction, and combinations and arrangements of parts as set forth in the following specification, and more clearly pointed out in the claims.

In the accompanying drawings I have illustrated one example of the physical embodiment of my invention constructed according to the best mode I have so far devised for the practical applications of the principles involved therein.

Figure 1 is a longitudinal vertical section of the roller. Fig. 2 is an end view of the roller (enlarged) showing the journal or spindle. Fig. 3 is a fragmentary sectional view of the roller, showing the spindle or journal and its mode of attachment to the roller proper. Fig. 4 is a transverse section of the journal bearing, and Fig. 5 is a longitudinal section of the journal bearing showing the journal therein.

The implement is of that type of apparatus known as riding rollers and is drawn by horse-power, as herein illustrated. The roller proper as indicated by the numeral 1, is preferably a hollow metallic device having a conformation which provides a central cylindrical drum portion 2, and tapering or conical end portions 3, 3. The tapering portions 3 are at their ends bored out to form a circular recess 4 in which recess may be seated the complementary block 5. These blocks may be secured in their seats by means of the set screw 6 which is passed through a perforation in the rim of the

roller ends 3, and prevents movement of the blocks therein. In this manner differing and various types of rollers may be employed within the scope of my invention, by providing a series of rollers of differing conformation, but all having standard recesses 4, to receive the block 5.

The spindle which forms the journal, as 7, is embedded in the block 5 which is bored for the reception of the threaded end 8 of the spindle and fashioned with an enlarged recess 9, rectangular in cross section and complementary to the enlargement or squared portion 10 of the spindle, which is embedded therein. A nut 11 and cotter pin 12 prevent displacement of the spindle from its seat.

The journal bearing as clearly shown in Figs. 7 and 8 comprise the lower plate 17 and wear plate 18, each having the usual semi-circular bore for the journal, and secured to the frame of the implement by means of bolts 19, passed through them.

One of the prime advantages of the illustrated conformation of the roller is that it may be used to roll "listed" ground, the central cylindrical portion or drum of the roller traveling in the depression between the rows or hills, and the tapering or conical ends of the roller acting on the rising ground at the sides of the depressions.

It will be observed that the spindle block which is attached to each end of the roller may be secured in place or removed therefrom with facility and small expenditure of time and labor. Attention is also called to the squared portion of the spindle which is seated in the complementary recess in the spindle block. This mode of attachment is an effective barrier against accidental or undesirable movement of the spindle, and insures stability in the connection.

From the above description taken in connection with the drawings, it is evident that I have produced an implement of this character which fulfils all the conditions set forth as the purpose of my invention.

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

1. In a land roller, the combination with a roller having a recess formed in the end thereof, of a block secured in said recess, a locking bolt carried by the roller for locking the block immovably therein, said block hav-

ing a central angular recess formed therein, and a spindle having one end journaled and the other of angular conformation and engaged and secured in the recess in the block.

- 5 2. In a land roller axle, the combination with a block engaged in the end of a roller having a socket formed therein to receive the inner end of a locking bolt for securing the block immovably in position, said block also
10 having formed therein a central circular opening terminating at one end in a square socket, of a spindle engaged in said opening, said spindle having turned ends and a central square portion, said portion being en-
15 gaged in the socket in the block, one end of the spindle being threaded to receive a nut

for locking the spindle with its square portion in said recess to prevent the independent movement of the spindle.

3. The combination with a roller having a 20 recess in each end, blocks seated in each recess and retaining means therefor, and a spindle having a squared portion seated in a complementary recess in said block and formed with a journal end. 25

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

W. R. CANADAY.

Witnesses:

H. POWERS,
NUTE SALL.