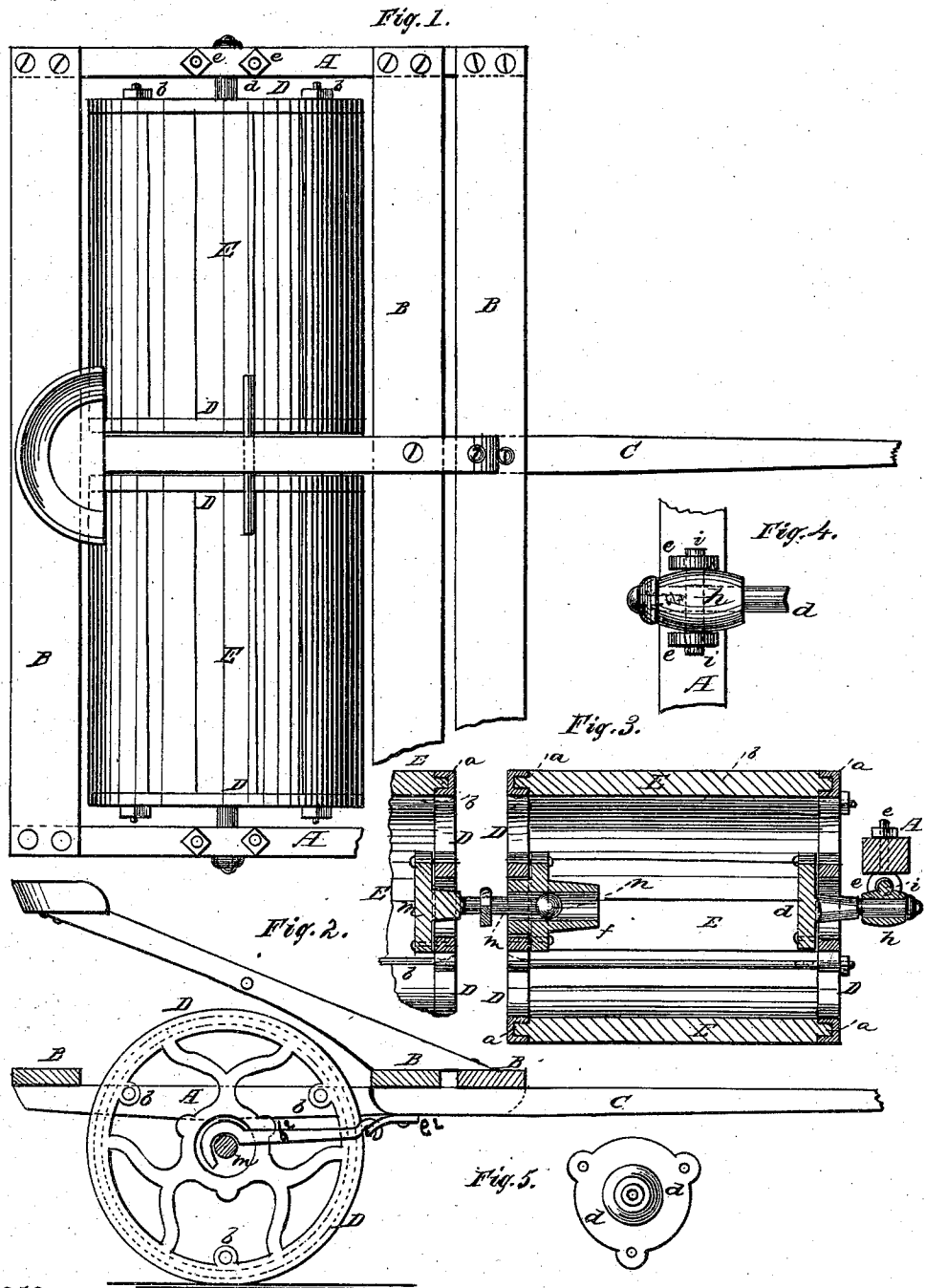


B. D. TABOR.
Field-Rollers.

No. 150,629.

Patented May 5, 1874.



WITNESSES:

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BYRON D. TABOR, OF WILSON, NEW YORK, ASSIGNOR TO HIMSELF AND
CLINTON D. TABOR, OF SAME PLACE.

IMPROVEMENT IN FIELD-ROLLERS.

Specification forming part of Letters Patent No. **150,629**, dated May 5, 1874; application filed
March 4, 1874.

To all whom it may concern:

Be it known that I, BYRON D. TABOR, of Wilson, in the county of Niagara and State of New York, have invented certain new and useful Improvements in Field-Rollers; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, which forms part of this specification.

The nature of my invention consists in the construction and arrangement of a land or field roller, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a plan view, Fig. 2 a vertical section, Fig. 3 a section, of the roller, showing the construction; Fig. 4, a plan of the journal-boxes; and Fig. 5 a plan of the journal.

A A represent two side timbers of the frame, on the top of which, and crossing from one to the other, are bolted three planks, B B. To the under side of the two front pieces is secured the tongue C.

The rollers are constructed as follows: Each roller has two cast heads, D D, in the inner side of each of which is made an annular groove or channel, *a*, near the outer edge, for the reception of the wooden staves E E. These staves have their ends cut to fit the channel and fill in between the two heads. Bolts *b b* are then passed through, holding the heads firmly to the ends of the staves. The outer head of each roller has a large bore cast in its hub, into which the journal *d* fits loosely, and is fastened securely to the inner side by three

bolts passing through corresponding projections on the hubs of the journal and head. These journals run loosely in boxes *h h*, which consist simply of a cored casting provided with trunnions *i i*, which have their bearings in eye-bolts *e e* passing up through the timbers A A. This arrangement allows a free play of the inner ends of the rollers up and down, by which means they can conform to the surface of the ground.

The sections or rollers are kept from sliding together endwise by means of suitable washers placed on the ends of the journals and held to place by nuts screwed on bolts cast in the ends of the journals. The center joint between the two rollers consists simply of a thimble, *f*, bolted into the bore of one of the inner or center heads in the same manner as the journal. In the opposite head is bolted a journal, *m*, having a ball, *n*, riveted on its outer end. This ball moves freely in the thimble, making a free-working joint.

*b*² is a hook or keeper linked into staple *e*², with its opposite end fitting over the journal which is on the inner ends of the rollers.

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

The combination, with the two sections of a field-roller, of the keeper *b*², thimble *f*, and the journal *m*, with a ball, *n*, on its end to form a flexible joint between the two sections, substantially as herein set forth.

In testimony that I claim the foregoing as my own invention I affix my signature in presence of two witnesses.

BYRON D. TABOR.

Witnesses:

EDWARD E. DOX,
E. V. W. DOX.