(No Model.)

E. HORTON.

LAND ROLLER.

No. 314,246. Patented Mar. 24, 1885.

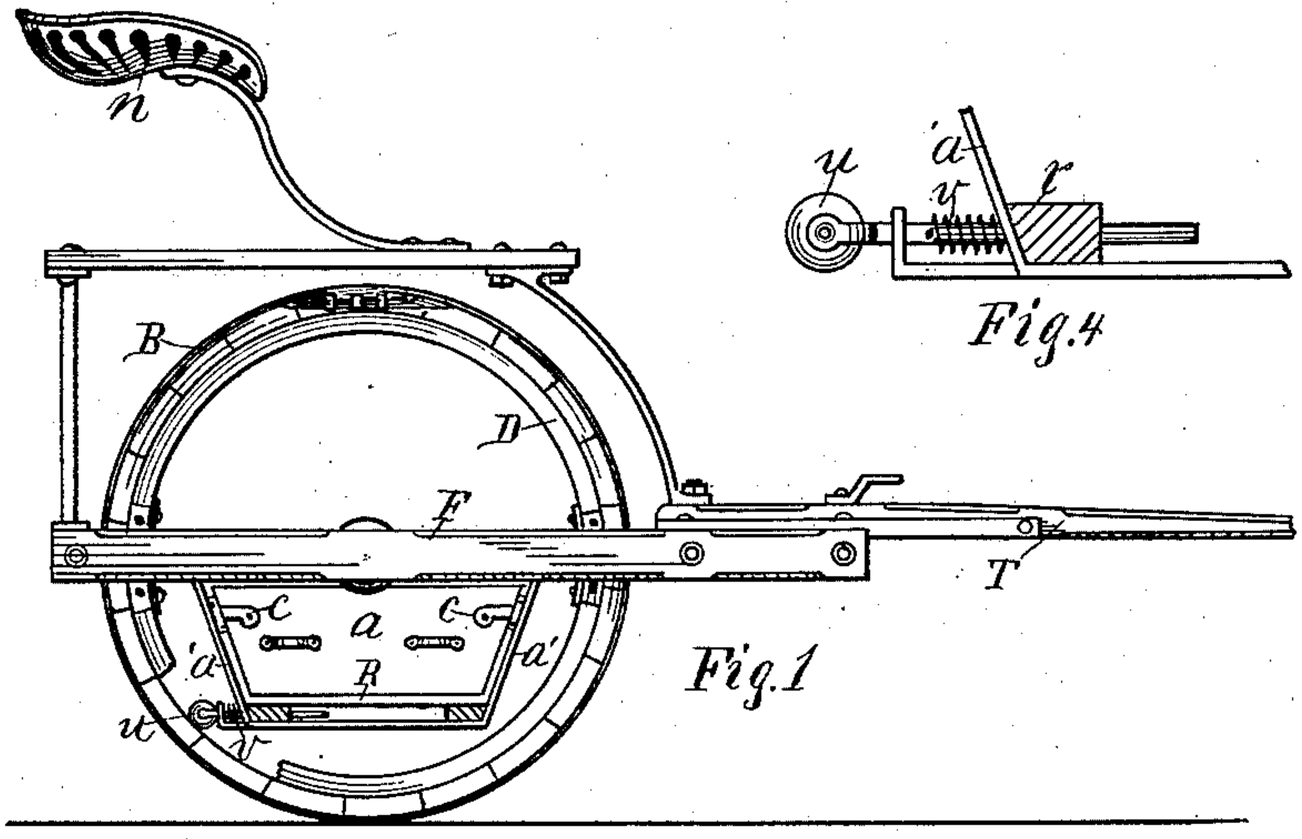

Fig. 1

Fig. 4

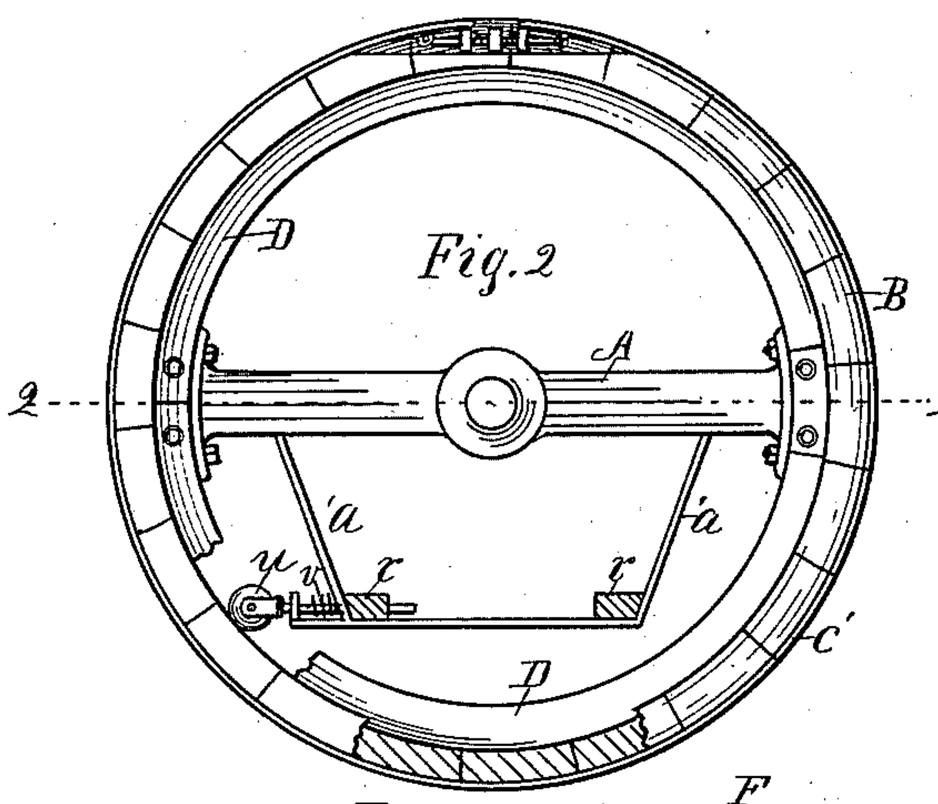

Fig. 2

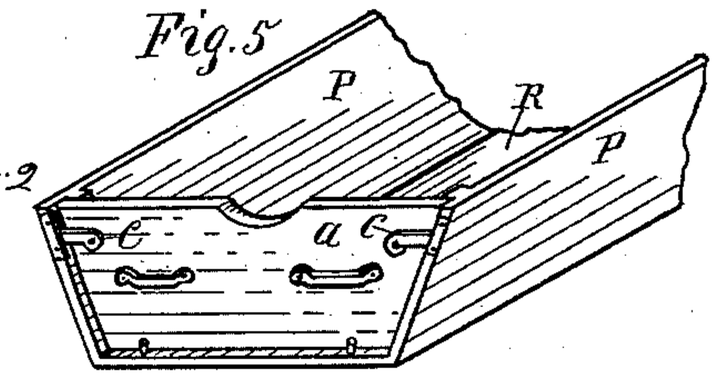

Fig. 5

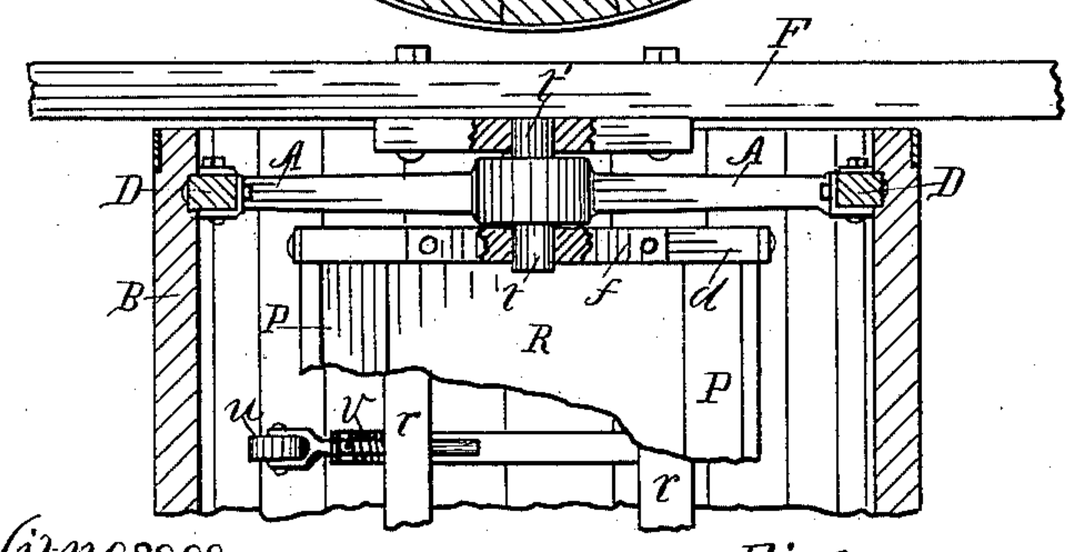

Fig. 3

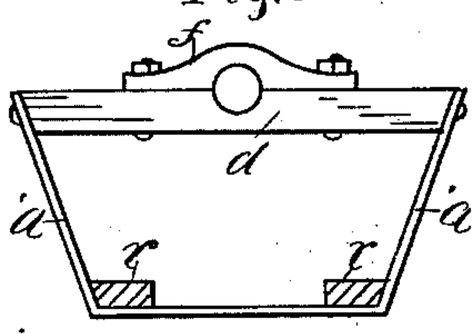

Fig. 6

Witnesses
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Atty.

UNITED STATES PATENT OFFICE.

EUGENE HORTON, OF PRAIRIEVILLE, MICHIGAN.

LAND-ROLLER.

SPECIFICATION forming part of Letters Patent No. 314,246, dated March 24, 1885.

Application filed July 1, 1884. (No model.)

To all whom it may concern:

Be it known that I, EUGENE HORTON, a citizen of the United States, residing at Prairieville, county of Barry, State of Michigan, have invented a new and useful Land-Roller, of which the following is a specification.

My invention has for its object certain improvements in land rollers, hereinafter described and claimed.

In the drawings forming a part of this specification, Figure 1 is a side elevation; Fig. 2, an end view of the roller enlarged, with parts broken away: Fig. 3, a broken horizontal section on line 2 2 in Fig. 2; Figs. 4 and 6, details of detached parts in Fig. 1, enlarged; and Fig. 5, a detached perspective of the weight-tray with part broken away.

The roller B has bearings in the frame F at each end, as in prior devices. Only one end of the roller B is here shown. The roller is composed of staves confined by tires, as heretofore. I make the head of the roller with only two spokes extending from the axis in opposite directions, as at A in Figs. 2 and 3. The felly is composed of two bent portions, D, completing a full circular rim. The ends of the spokes A are provided with castings having a recess, in which the ends of the fellies are located, and bolted therein, as in Figs. 2 and 3. By this means the head of the roller is made strong, and sufficient space each side of the spokes is left to locate and operate a weight-tray, P. The tray has an open top, in which may be placed stone, earth, or other material to weight the roller, Fig. 5. It has a detachable door in the end, as at *a*, to facilitate unloading the tray. The door *a* is provided with pivoted latches *c c*, to hold it in place. This tray P is located in a frame which is pivotally hung within the roller on the inwardly-extending stud *t* of the axis, Fig. 3, at each end of the tray-frame. This frame is composed of end top pieces, *d*, having a casting, *f*, forming the pivot-hole, end angular irons, *a' a'*, and lower side strips, *r r*. The tray P is slid into this frame through the opening below the spokes A, and rests upon the strips *r r*, Fig. 1. The tray-frame is provided with one or more wheels, *u*, pivotally connected with the end of a horizontally-movable pintle, which is actuated by a spring, *v*, in a manner to cushion the engagement of the wheel with the inner periphery of the roller. The object of the wheel and connections is to keep the tray from unduly swaying laterally during the motion of the roller.

I am aware that hollow rollers have been heretofore provided with internal weights and weight-trays; but so far as I know I am the first to have devised the improvements herein shown.

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

1. The combination, with a roller-frame and a roller, of a tray-frame pivotally suspended therein, and a tray detachably located in said tray-frame, substantially as set forth.

2. The roller-frame and roller, in combination with a tray-frame provided with the pintles and wheels, and a weight-tray, all constructed and adapted to operate substantially as set forth.

3. A stave roller provided with a head composed of two spokes radiating in opposite directions from their axis, and provided at the outer ends with the castings of the semicircular rims bolted in the recesses of said castings, substantially as set forth.

In testimony of the foregoing I have hereunto subscribed my name in the presence of two witnesses.

EUGENE HORTON.

Witnesses:

GEO. D. B. HALL,

GEO. W. YOUNG.