

(No Model.)

S. HAZEN.
LAND ROLLER.

No. 423,248.

Patented Mar. 11, 1890.

Fig. 1.

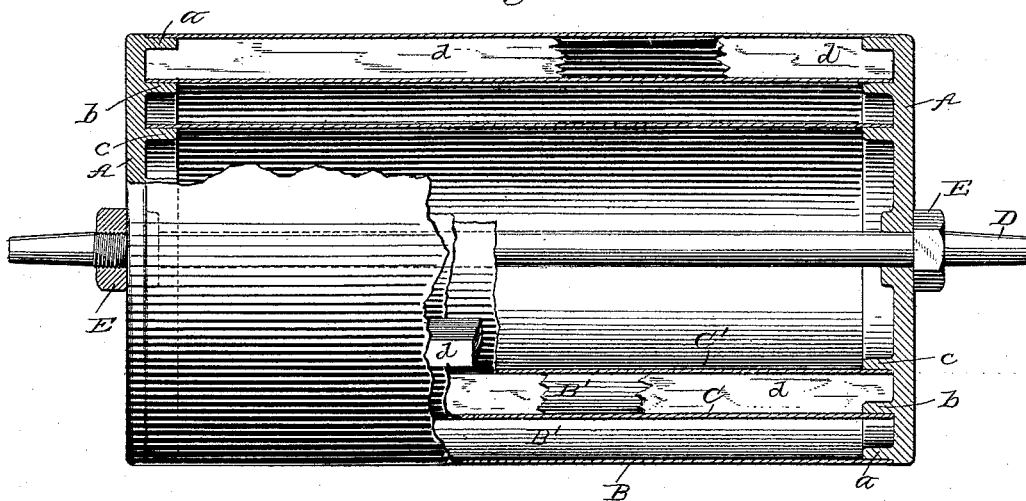


Fig. 2.

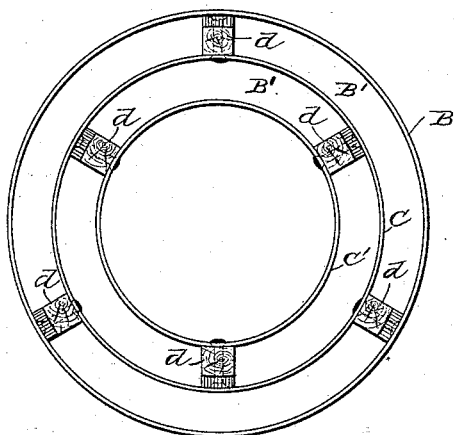
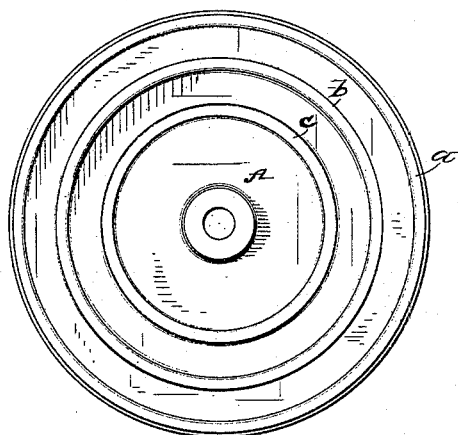


Fig. 3.



Witnesses

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SANFORD HAZEN, OF RIPON, WISCONSIN.

LAND-ROLLER.

SPECIFICATION forming part of Letters Patent No. 423,248, dated March 11, 1890.

Application filed September 20, 1888. Serial No. 285,869. (No model.)

To all whom it may concern:

Be it known that I, SANFORD HAZEN, of Ripon, in the county of Fond du Lac, and in the State of Wisconsin, have invented certain new and useful Improvements in Land-Rollers; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to land-rollers and will be fully described hereinafter.

In the drawings, Figure 1 is a longitudinal section through the center of my device, partly broken away and partly in elevation. Fig. 2 is a cross-section through the cylinders, and Fig. 3 an inside elevation of one of the heads.

My roller consists of two end pieces or heads A, which are preferably formed with ribs on their inner faces, each of which receives an end of a cylinder. The outer ends of the outer cylinder B are supported by the ribs *a a* of the two heads A A, the next C is supported by ribs *b b*, and the third or inner cylinder C' by ribs *c c*, and each cylinder carries division-bars *d*. Each cylinder is independent of the others and can be removed without affecting the others; but each pair of cylinders forms between them a receptacle B' for weighting material, such as sand or earth or any other substance that may be poured into the space between the two cylinders. The heads are held together by an axle D and two nuts E E, that fit on screw-threaded portions of the axle, and the draft is applied to the projecting portions of the axle in any way to permit the axle to turn as the roller is being drawn.

My roller is sold empty and is to be loaded with any quantity of filling to give the desired weight for the work it is to do, the filling being poured into either or all of the receptacles B' in sufficient quantity for the purpose. The shifting of the weight is prevented by the division-bars *d*. The cylinders may be made of any desired material.

While I have shown cylindrical compartments for receiving the weighting material, it is obvious that the form of the inner compartment or compartments is immaterial, and may be square or of any other shape preferred.

My heads or end pieces may be of either wood or metal united in any preferred manner to make a roller, and weighting material may be placed inside of the central compartment, if desired.

In putting my device together the various cylinders may be placed against the adjacent ribs on one of the heads with said cylinders extended vertically or on end, and the compartments thereof filled, and then the other head may be applied and the parts all securely locked together by the axle and nuts in an obvious manner.

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

1. A land-roller consisting of two heads with annular ribs on their inner opposing faces, a series of cylinders connecting said heads, with the ends of each cylinder surrounding an annular rib on each head, and a series of longitudinal division-bars secured to the cylinders to form segmental compartments between each two adjacent cylinders, substantially as set forth.

2. A land-roller consisting of two or more cylinders, heads supporting the cylinders, ribs for holding the cylinders apart, but free from attachment thereto, and an axle adapted for clamping the cylinders between the heads, as set forth.

3. The combination, in a land-roller, with the cylinders and heads, of division-bars, substantially as described.

4. The combination, with ends or heads suitably united to form a roller, of a series of annular compartments secured to said heads within the roller, a series of longitudinal division-bars dividing the space between adjacent cylinders, and a loose filling whose shifting is prevented by said division-bars, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Ripon, in the county of Fond du Lac and State of Wisconsin, in the presence of two witnesses.

SANFORD HAZEN.

Witnesses:

A. C. JELLETT,
W. S. HAZEN.