No. 688,577. Patented Dec. 10, 1901.

S. BARBER.

LAND ROLLER.

(Application filed Mar. 7, 1901.)

(No Model.) 2 Sheets—Sheet 1.

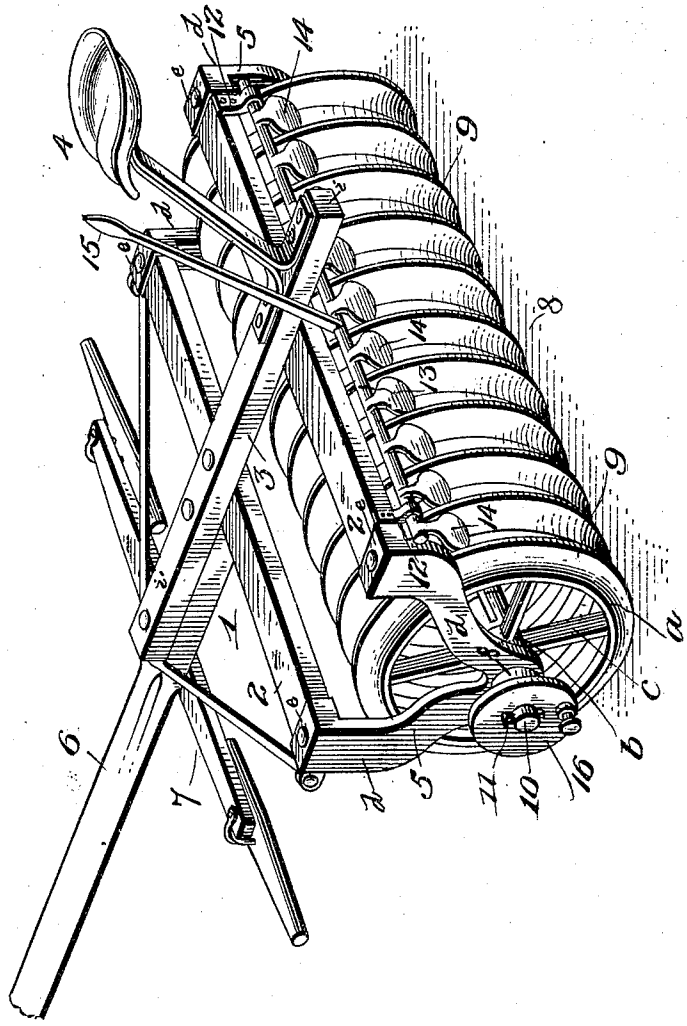


Fig. 1.

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(No Model.) 2 Sheets—Sheet 2.

Fig. 2.

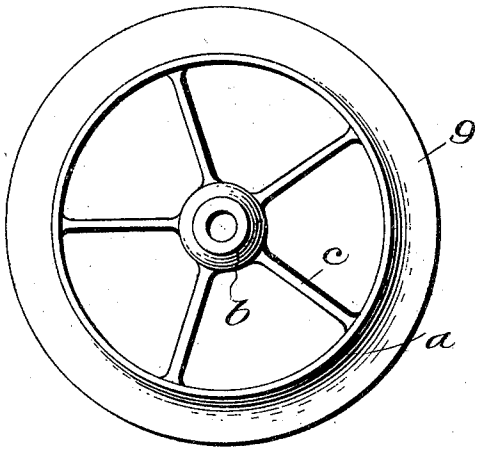


Fig. 3.

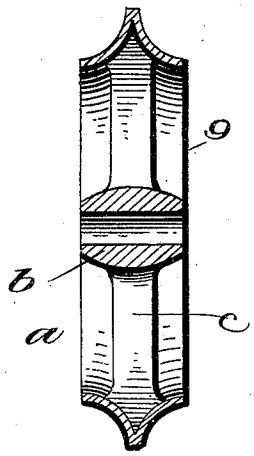
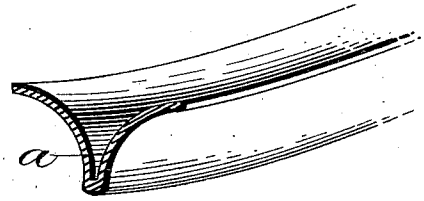


Fig. 4.



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UNITED STATES PATENT OFFICE.

SAMUEL BARBER, OF DANSVILLE, NEW YORK.

LAND-ROLLER.

SPECIFICATION forming part of Letters Patent No. 688,577, dated December 10, 1901.

Application filed March 7, 1901. Serial No. 50,153. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL BARBER, a citizen of the United States, residing at Dansville, in the county of Livingston and State of New York, have invented certain new and useful Improvements in Land-Rollers or Clod-Crushers; and I do 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 appertains to make and use the same.

The invention relates to a land-roller or clod-crusher.

The object of the invention is to provide a machine of this character which shall be simple of construction, durable in use, and comparatively inexpensive of production and efficient in operation.

With this and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, which will be hereinafter more fully described, and particularly pointed out in the appended claim.

In the accompanying drawings, Figure 1 is a perspective view taken from the rear of my improved land-roller or clod-crusher. Fig. 2 is an enlarged side view of one of the roller-sections. Fig. 3 is a vertical sectional view of the same. Fig. 4 is an enlarged detail perspective view of a fragment of the periphery of the roller-section.

Referring to the drawings, the numeral 1 denotes the frame of my machine, which consists of spaced parallel cross-bars 2, held together at their central upper portions by means of a cross-bar 3, which projects over the front parallel bar and likewise over the rear parallel bar. To the rear projection *i* of the cross-bar is secured the driver's seat, which enables the feet of the driver to rest on said rear parallel bar, so that he can have a bearing or purchase against the same during the operation of the machine. To the front projection *i'* of the cross-bar and on the under side thereof is secured the tongue or pole 6, the inner end of which abuts against the front face portion of the forward parallel bar, whereby to more securely hold the said pole in position. To the under side of the pole is pivotally mounted the doubletree 7 by means of a bolt passing through the projecting end of the cross-bar 3 and through the connected end of the tongue 6.

The numeral 5 designates a hanger having curved branched arms *d*, terminating at their upper extremities with sockets *e*, into which project the ends of the spaced parallel bars 2, and held therein by means of bolts or other suitable fastenings. The lower or base portions of these hangers are provided with openings which form bearings for a shaft 10. On one end of the shaft 10 is a crank disk wheel 16, which can be utilized for the purpose of gearing up with the driving mechanism of a seed-planter or for a plaster or a fertilizer distributer. Mounted on the shaft 10, between the crank disk wheel 16 and the front face of the base of the hanger, is a collar or sleeve, which prevents frictional contact of said crank disk wheel with the front face portion of the said hanger.

The numeral 8 designates the land-roller, and 9 is the rollers composing the same. Each of said rollers consists of hubs *b*, spokes *c*, and rims *a*, said parts being formed integral with each other. The peripheral portions *a'* of the rims of each roller are made in quarter-circular shape on opposite sides thereof and when grouped together side by side on the shaft 10 form semicircular recesses, which serve to break the clods or pulverize the soil as the machine is rolled over the ground.

Secured to the outer face portion of the rear parallel cross-bar and at opposite ends thereof are brackets 12, in which is pivotally mounted a rod 13, having formed integral therewith scrapers 14, which depend from the rod 13 by means of arms *m* therewith. The body portions of the scrapers are made in approximating circular form, so as to enter and fit completely within the semicircular recesses in the rollers, whereby to relieve or clean said semicircles of accumulating soil, the arms *m* of the scrapers serving to give the same a spring action when coacting with the semicircular recesses. The bar or rod 13 is provided with an integral lever 15 to operate the scraper, said lever being within easy reach of the driver for the purpose.

Having described my invention, what I claim is—

In a land-roller, the combination with the

frame, having a shaft mounted therein, and rollers with hubs and spokes therewith journaled on said shaft, the rollers also having on opposite sides quarter-circular shaped peripheral portions, and when grouped together on said shaft forming peripheral semicircular recesses between them, a rod pivoted to the rear portion of the frame having integral arms with a series of circular scrapers thereon, to coact with the semicircular recesses of the rollers, and an operating-lever integral with said rod, substantially as specified.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

SAMUEL BARBER.

Witnesses:
SAML. E. ALLEN,
GEO. R. BROWN.