

E. Evans,
Land Roller.

Nº 94,879.

Patented Sep. 14. 1869.

Fig. 1.

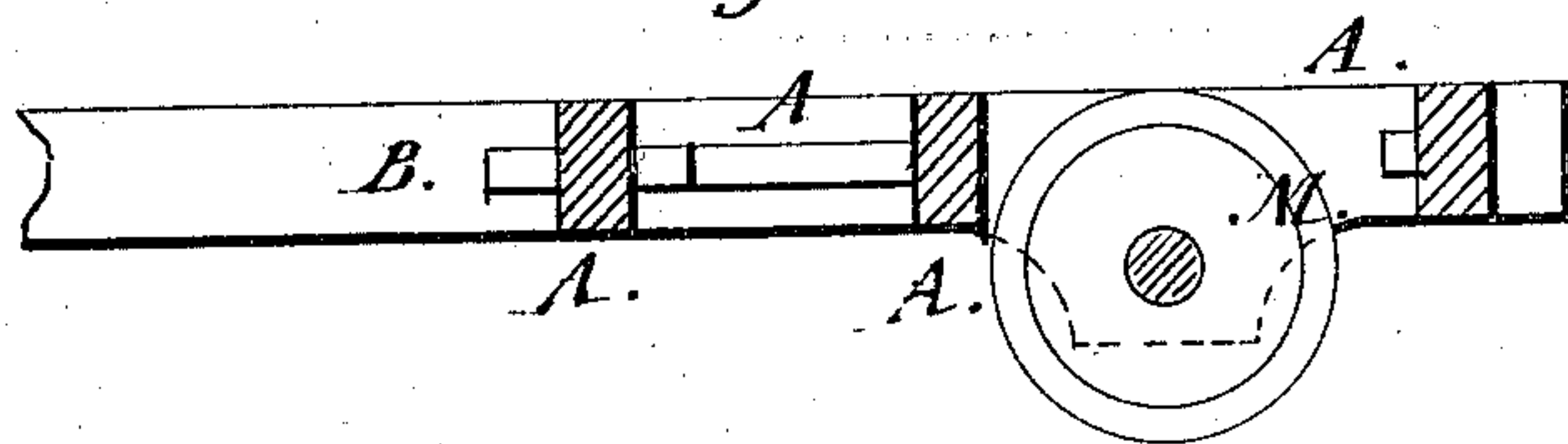
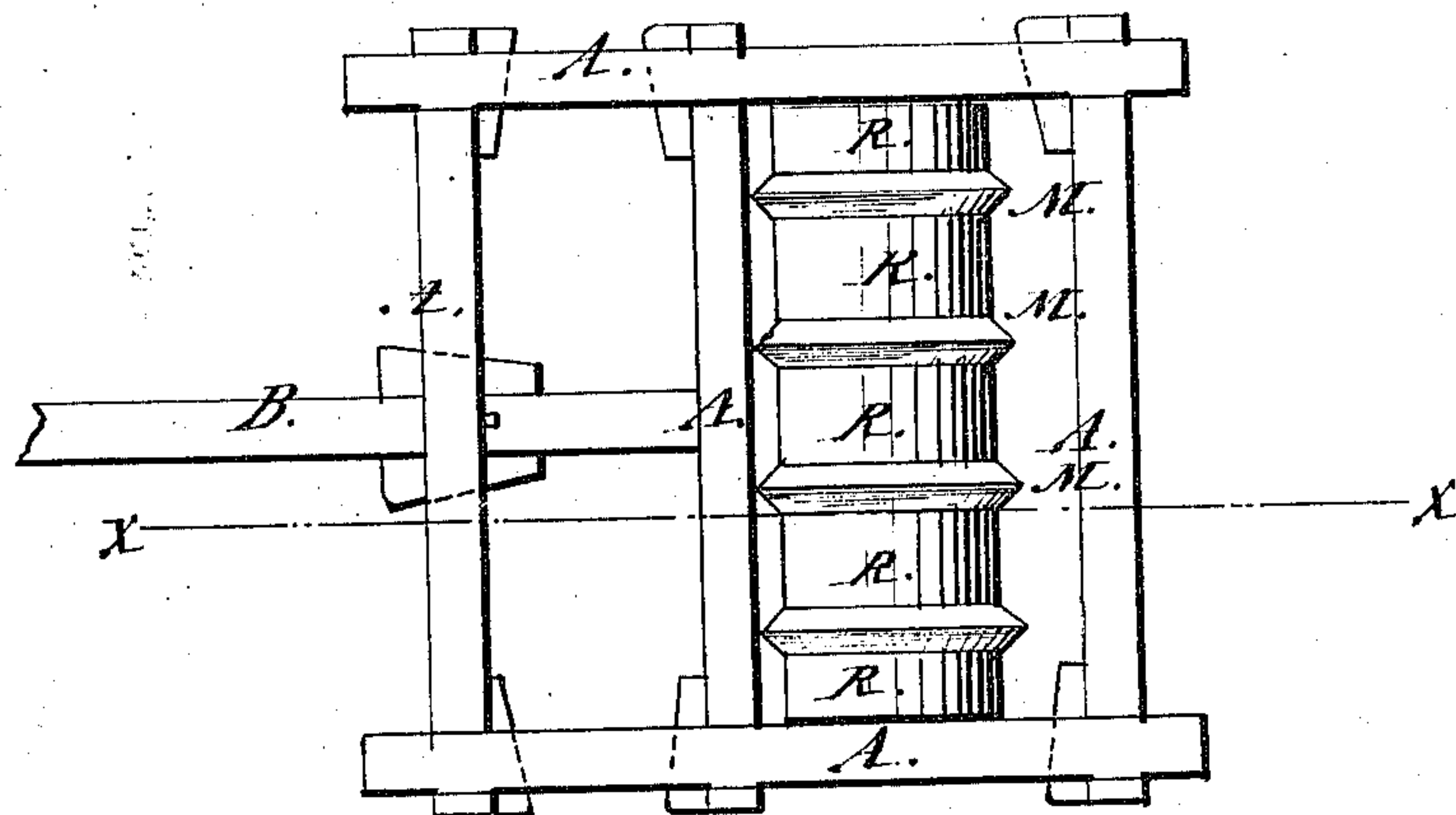


Fig. 2.



Witnesses:

G. A. Pettit
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Inventor:

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United States Patent Office.

ELIHU EVANS, OF DENVER CITY, COLORADO TERRITORY.

Letters Patent No. 94,879, dated September 14, 1869.

IMPROVEMENT IN SECTION-ROLLER AND MARKER COMBINED.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, ELIHU EVANS, of Denver City, in the county of Arapahoe, and Territory of Colorado, have invented a new and improved Combined Section-Marker and Roller; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a longitudinal vertical section through line $x x$ of fig. 2.

Figure 2 is a top view.

This invention consists in a new arrangement and combination of section-rollers and section-markers in a single instrument, to be employed on plowed ground in rolling the surface and laying off well-defined drills or channels, at any required distance apart, into which the agriculturist can lead water and thereby distribute it uniformly over the field for the purpose of irrigation.

The instrument is designed, and its form and construction has a special adaptation for use on the lands along the eastern slope of the Rocky mountains and Cordilleras, in Colorado and New Mexico, which require irrigation almost every season.

In the drawings—

A is the frame,

B, the draught-pole, and

c, the axle.

R R are section-rollers, each running loosely on the axle, and independently of all the others.

M M are section-markers, interposed between the rollers, and having their sharp wedge-form edges projecting beyond the perimeter of the rollers, as shown in fig. 2, and so constructed as to imprint upon the surface of the ground long well-defined parallel drills or channels, several inches deep, and with pressed and hardened sides and bottom.

These channels may be varied in distance from each other by removing some of the markers, or by substituting longer or shorter rollers between said markers.

By this means, the agriculturist can mark the surface of his ground (which in the country referred to is generally slightly inclined) with series of parallel channels, at any suitable distance, from a few inches to two or three feet apart, and then by introducing water into these channels at their upper end, it will be conveyed to all parts of the field, and brought to every square foot of soil therein.

The means for introducing the water at the upper end of the channels may simply be a small canal or trench running at angles to the drills above described.

When not used thus to lay off the surface of the field into suitable water-channels, the markers may be removed, and the instrument used without them, as an ordinary field or lawn-roller.

The rollers and markers being made in sections, or independent of each other, the instrument is not only adapted to make the channels at different distances apart, as may be required, but it turns more easily at the ends of the field than if the rollers and markers were made in one or two solid pieces; and besides these two advantages, it can be taken apart and packed for transportation into a much more compact and convenient form for handling.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The section-roller and marker for irrigating-purposes, substantially as above described, having the frame A, draught-pole B, short independent rolls R R, and interposed markers M M, rotating independently of each other and of the rolls, when constructed in the manner herein set forth, and for the purposes specified.

To the above specification of my improvement, I have set my hand, this 13th day of April, 1869.

ELIHU EVANS.

Witnesses:

H. L. BOYD,

J. M. CROSS.