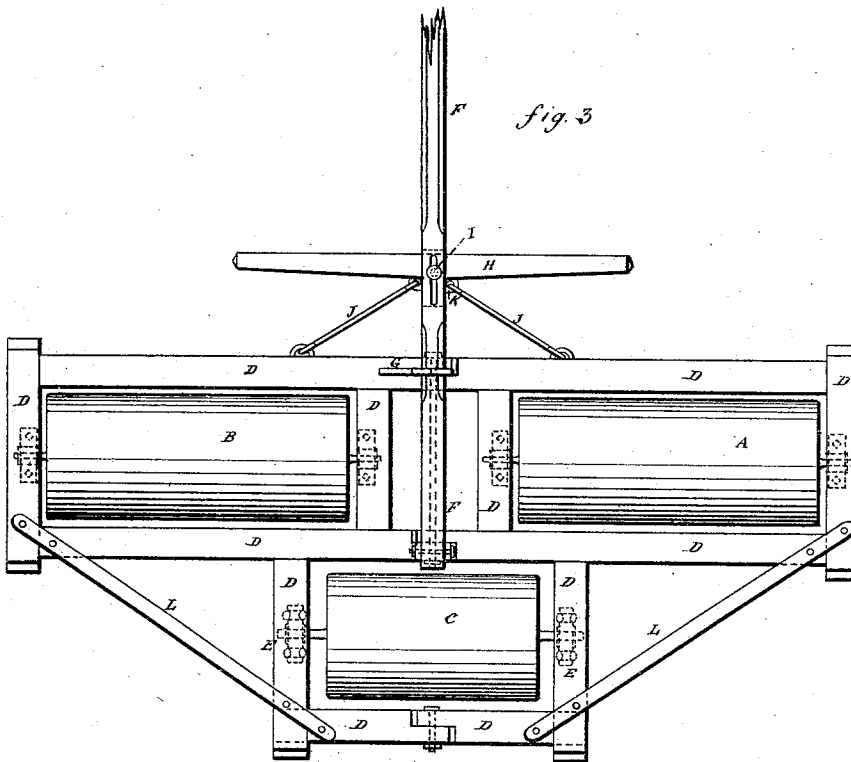
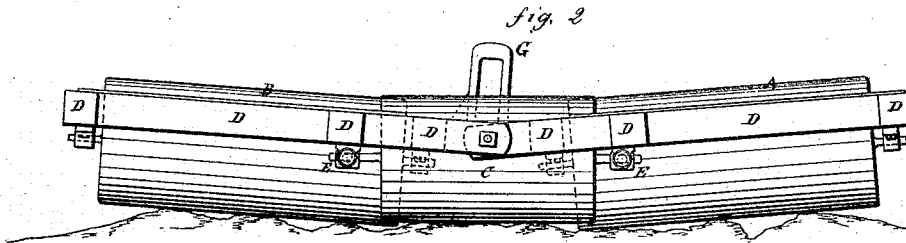
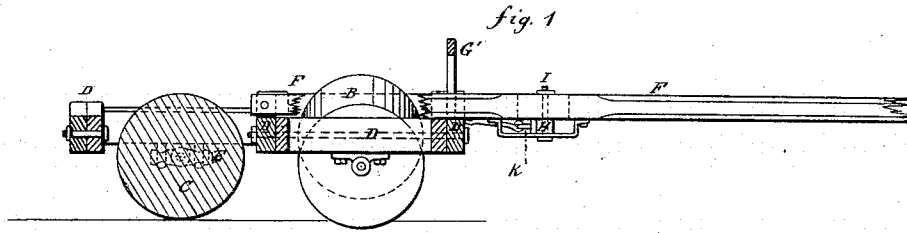


B. S. HEALY.
Land-Rollers.

No. 157,327.

Patented Dec. 1, 1874.



WITNESSES:

C. Norcross
Chesnick

INVENTOR:

BY

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ATTORNEYS.

UNITED STATES PATENT OFFICE.

BENJAMIN S. HEALY, OF COHOCTON, NEW YORK.

IMPROVEMENT IN LAND-ROLLERS.

Specification forming part of Letters Patent No. **157,327**, dated December 1, 1874; application filed April 25, 1874.

To all whom it may concern:

Be it known that I, BENJAMIN S. HEALY, of Cohocton, in the county of Steuben and State of New York, have invented a new and useful Improvement in Land-Roller, of which the following is a specification:

Figure 1 is a vertical section of my improved roller. Fig. 2 is a rear view of the same. Fig. 3 is a top view of the same.

Similar letters of reference indicate corresponding parts.

The invention will first be fully described, and then pointed out in the claim.

A B C is the roller, which is made in three parts or sections. The forward and longer parts A B are placed in line with and at a little distance from each other. The rear and shorter part C is placed directly in the rear of the space between the parts A B, and is made of such a length that its path may overlap the paths of the parts A B, so that the whole surface of the ground may be rolled. D is the frame-work of the roller, which is made in such a form as to surround the three parts of said roller, as shown in Fig. 3. The frame D is made in two equal parts, which are hinged to each other in the central line of the machine, so that its side parts may rise and fall to adjust themselves to the surface of the ground. The journals of the rear part C of the roller revolve in bearings or journal-boxes or blocks E, which rock in staples or other keepers attached to the longitudinal bars of the rear part of the frame D, so that the rise and fall of either end of the frame D will not effect the rotation of the said part C of the roller. F is the tongue, the rear end of which is hinged to the middle part of the frame D, in the line of

its hinges. The tongue F passes through a long keeper or slotted guide, G, attached to the middle part of the front of the frame D, so that the forward end of the tongue may have a free vertical movement, to relieve the horses' necks from having to sustain any downward pressure, and thus make their work easier. H is the double-tree, which is placed in a keeper attached to the tongue F, and is pivoted to a bolt, I, which passes through a hole in said double-tree and through a longitudinal slot in said tongue and keeper. J are draft-bars, the rear ends of which are hooked into staples or eyes attached to the front bar of the frame D, upon the opposite sides of and equally distant from its forward hinge. The forward ends of the draft-bars J are pivoted to the rear corners of a plate, K, which is inserted in a horizontal slot in the center of the double-tree H, and has a hole formed through it, through which the double-tree bolt I passes.

By this arrangement the draft will always be applied to the front part of the frame D, whatever position the tongue F may have.

The rearwardly-projecting part of the frame D is strengthened by the inclined braces L, as shown in Fig. 3.

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

The combination, with frame and slotted hinged tongue, of the single-tree H, bolt I, plate K, and rods J J, as and for the purpose specified.

BENJAMIN S. HEALY.

Witnesses:

JNO. J. HEALY,
A. M. DAVIS.