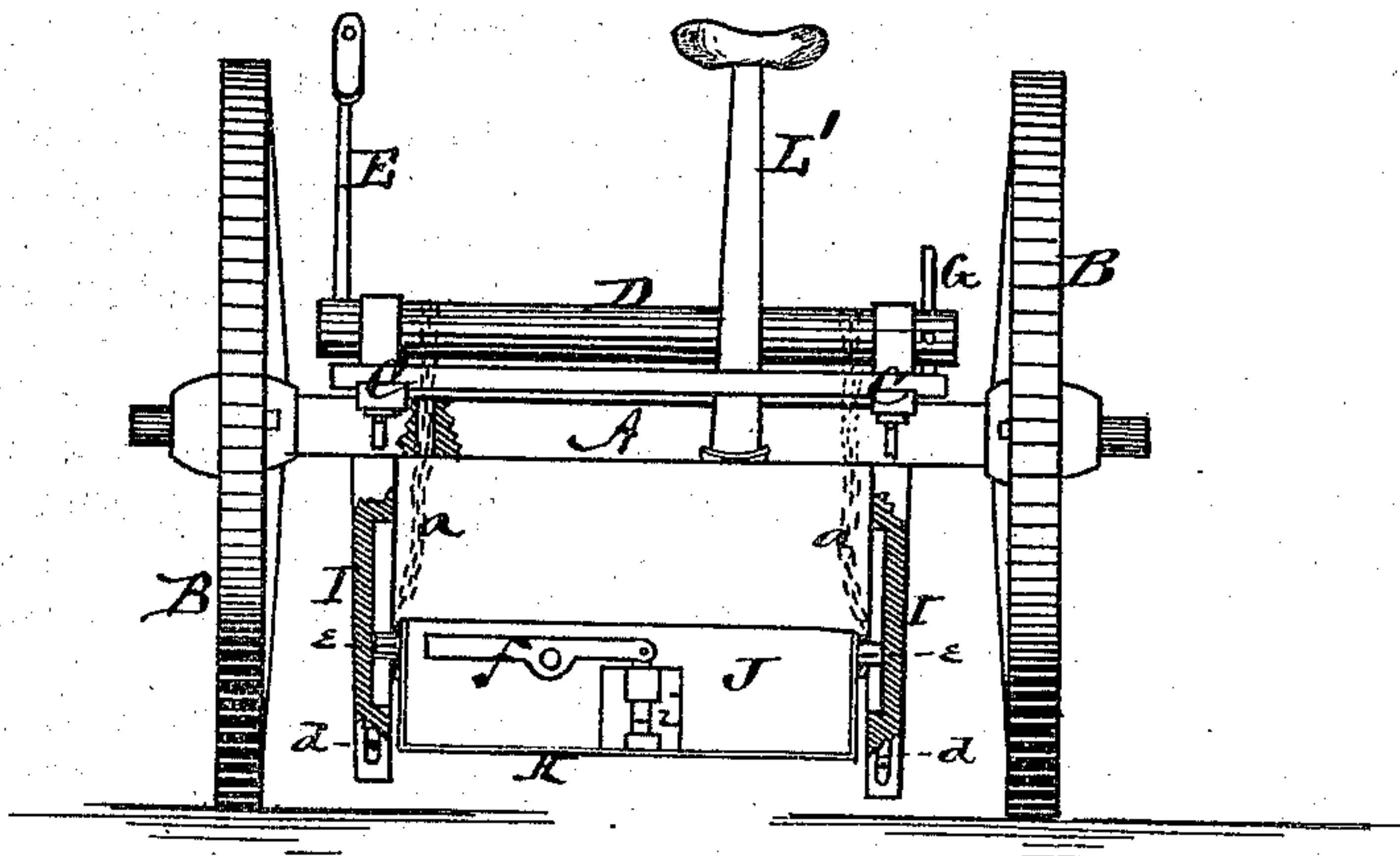
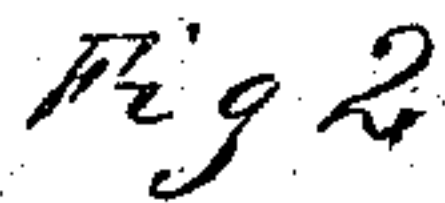


## Scrapers.

Patented Dec. 10, 1872.



Francis L. Orand  
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Inventor.  
Theodore Ripley.  
per Charles Mason

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# UNITED STATES PATENT OFFICE.

THEODORE RIPLEY, OF BROOKLYN, NEW YORK.

## IMPROVEMENT IN SCRAPERS.

Specification forming part of Letters Patent No: **133,890**, dated December 10, 1872.

*To all whom it may concern:*

Be it known that I, THEODORE RIPLEY, of Brooklyn, in the county of Kings and in the State of New York, have invented certain new and useful Improvements in Wheeled Dirt-Scraper; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of a shovel or scoop scraper on wheels to carry soil, load, and dump it, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view, and Fig. 2 is a rear elevation of my machine.

A represents the axle of my machine, upon each end of which is a wheel, B. To the upper side of this axle is secured a frame, C, which, at its front end, forms the outer shafts, a center shaft being fastened to the frame, so that two horses may be used. On the frame C, in suitable boxes, are placed two windlasses, D and D', one, D, being immediately above the axle, and the other, D', a short distance in front thereof. The rear windlass D is at one end, provided with a lever, E, while the other, D', is, at the opposite end, provided with a spoke-wheel, G. H represents the scoop or scraper, suspended, by means of chains *a a*, from the windlass D, and, by chains *b b*, from the windlass D', the chains *a a* passing through holes in the axle A. The scoop H turns upon pivots *e e* in the vertically-grooved standards I I, which extend downward from the axle A and are braced by rods *d d*. The back J of the scoop is pivoted at its upper edge in the sides of the scoop, and provided with a bolt, *i*, operated by a lever, *f*, to close the same. K K are handles attached to the sides of the scoop; and L' is the driver's seat, attached to

the axle and supported by the rear cross-bar of the frame A.

When the scoop or scraper is loaded it is hoisted by the rear windlass D by turning the lever E. When this lever is let back there should be a small line attached to a small block, *h*, on the top of the lever, which gives additional purchase in hoisting. After the shovel has been hoisted by the rear windlass D the front windlass D' is revolved, rolling up the chains *b b* and raising the front of the scoop. As the scoop or shovel turns on the pivots *e e* it will now hang in proper position to be taken to the place where it is desired to dump it. By pressing down on the lever *f* the bolt *i* will be drawn up, and the back J swing on its pivots and dump the load.

In front of the scoop or scraper H is a revolving brush, L, the center shaft of which has its bearings in irons *m m* secured to the under side of the shafts; and a belt connects a pulley on said shaft with a pulley on the inner side of one of the driving-wheels B, whereby the brush is revolved as the machine moves forward. The bearing-irons *m m* should be arranged in such a manner that the brush can rise and fall and be taken off, as required.

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

1. The shovel or scoop H suspended, by means of chains *a a* and *b b*, from two separate and independent windlasses, D D', and having pivots *e e* working in vertically-grooved standards I I, substantially as and for the purposes herein set forth.

2. The combination, with the sulky A B C, of the windlasses D D', chains *a b*, scoop H with pivots *e* and swinging back J, the standards I, handles K, and revolving brush L, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 3d day of September, 1872.

Witnesses: THEODORE RIPLEY.

J. DAVENPORT,

A. M. DAVENPORT.