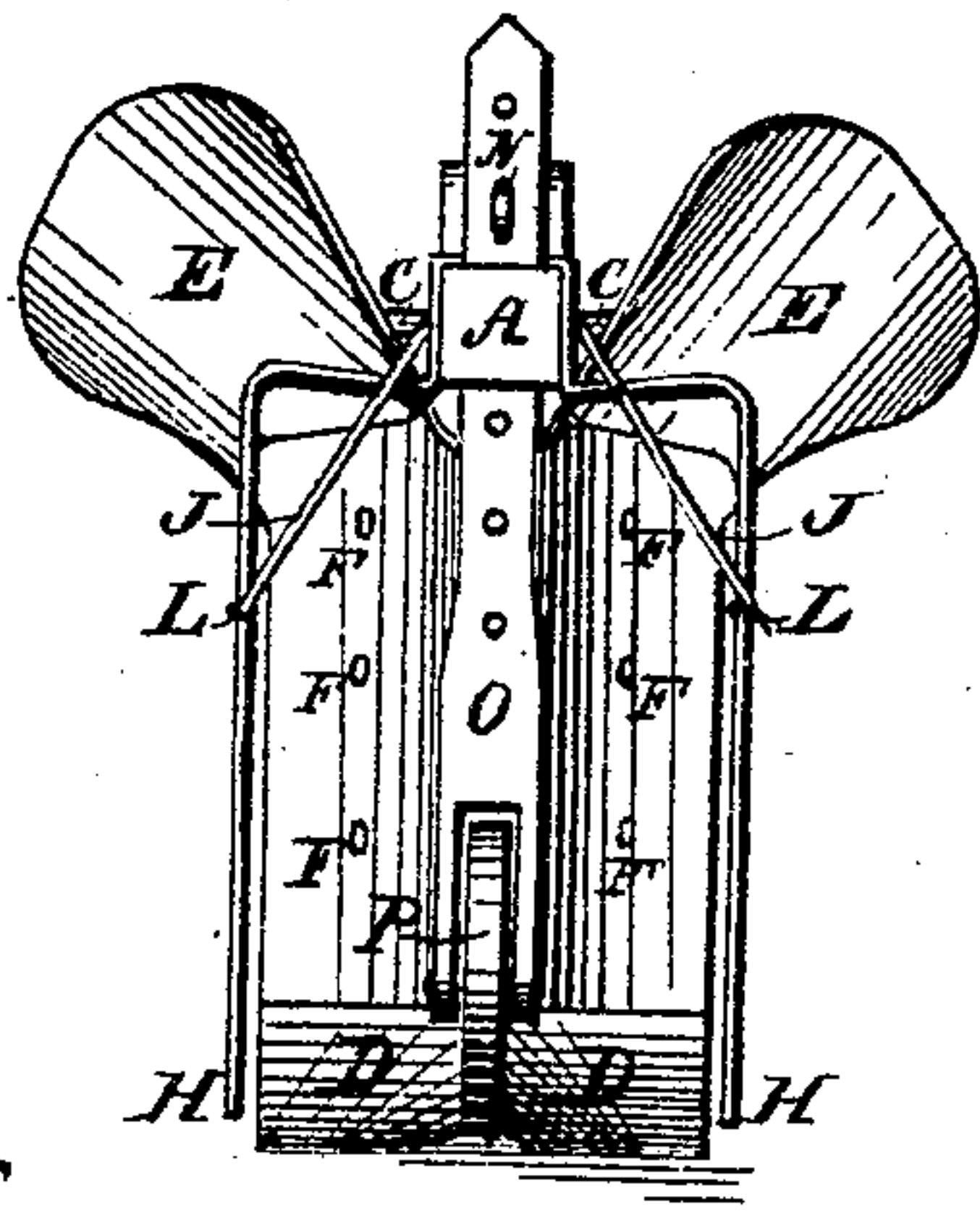
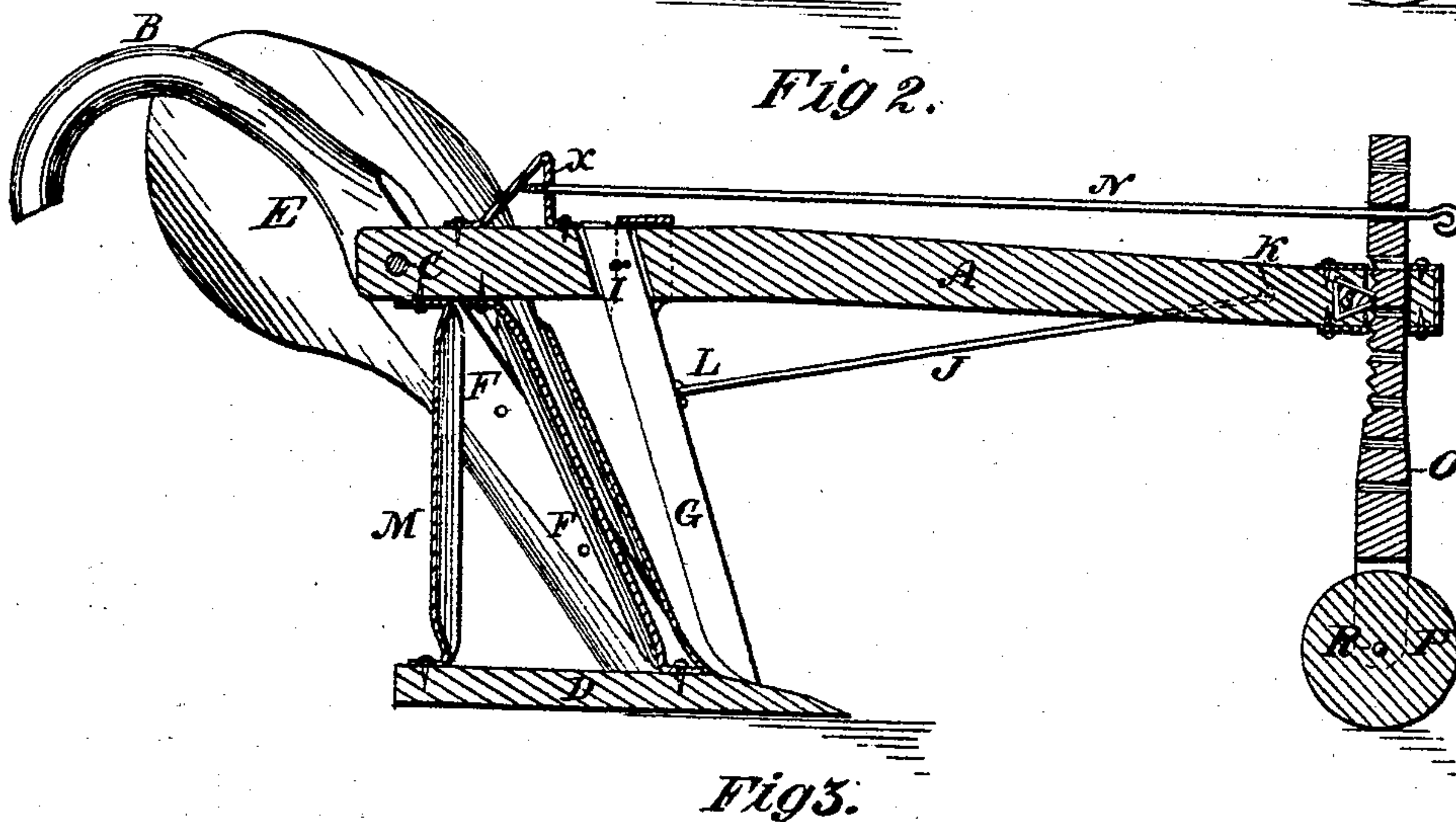
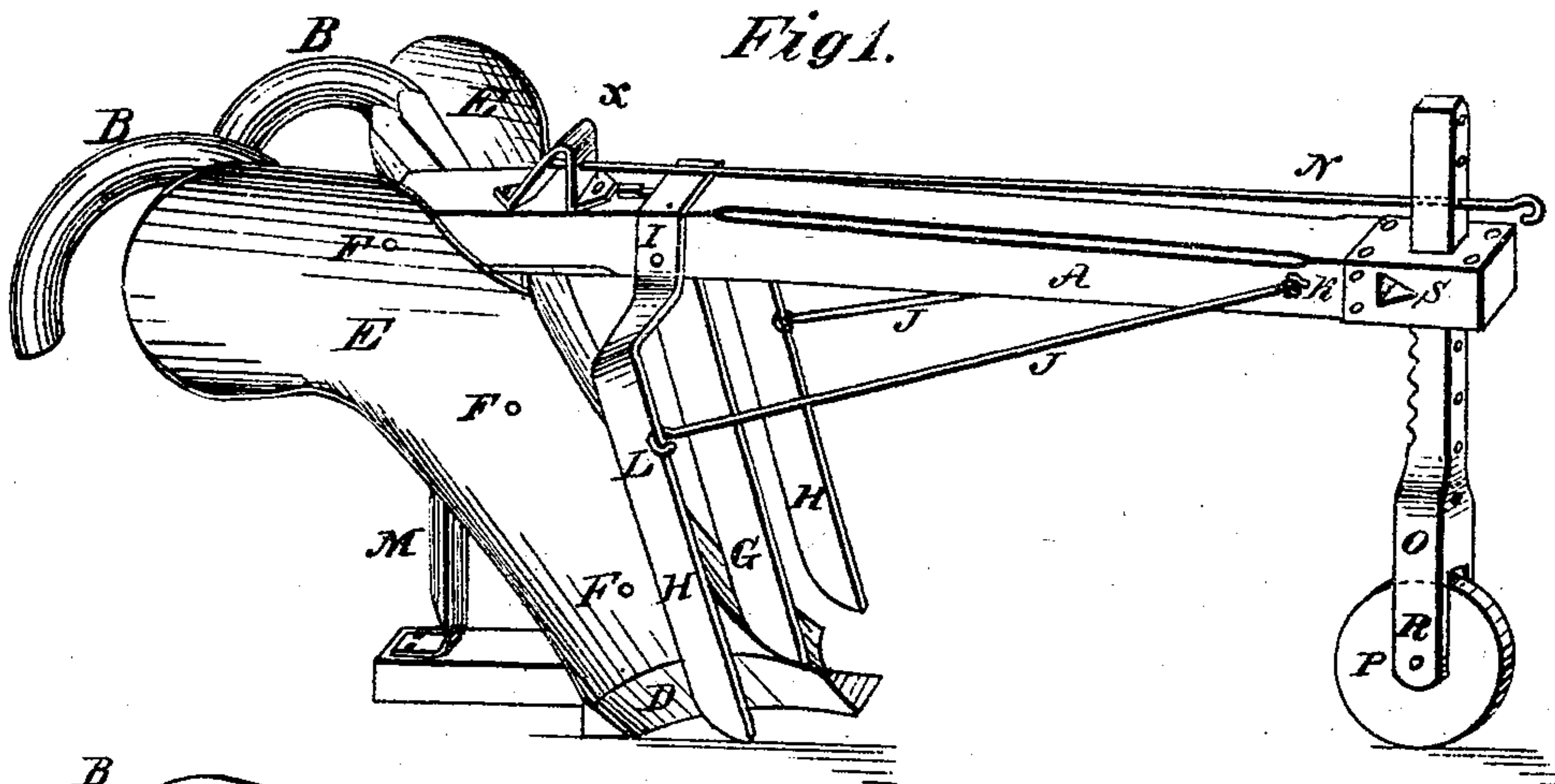


W. B. TICHENOR.
Ditching Plows.

No. 152,436.

Patented June 23, 1874.



Witnesses

W. E. Clark,
John M. Gour

Inventor.

W. B. Tichenor

UNITED STATES PATENT OFFICE.

WILLIAM B. TICHENOR, OF TIPTON, INDIANA.

IMPROVEMENT IN DITCHING-PLOWS.

Specification forming part of Letters Patent No. **152,436**, dated June 23, 1874; application filed May 8, 1874.

To all whom it may concern:

Be it known that I, WILLIAM B. TICHENOR, of Tipton, in the county of Tipton and State of Indiana, have invented certain new and useful Improvements in Ditching-Plows, whereby ditching may be done more rapidly, and with less labor, as herein more fully set forth and described in the following specification, and illustrated in the accompanying drawings with sufficient clearness to enable others of competent skill to make and use my invention.

In the drawings, Figure 1 is a perspective view of the ditching-plow complete. Fig. 2 is a side view in section, and Fig. 3 is a front view.

I construct my plow by making an ordinary beam, A, to which handles B B are attached by a single ring, C, which passes through the back end of beam A, and through the handles. I construct my share or mole D flat on the bottom, and angular from the sides to the center, and rising from the point back to raise the loose dirt up to be carried to the top of the ditch by mold-board E. My mold-board I set firmly on mole D, and its shape is angular from the center, with high wings on each side, so that the lateral pressure forces the loose earth upward, and to the sides of the ditch, until it reaches the top, and the broad ends throw it off, and prevent it from falling back. The mold-board spreads out on each side of the beam at the upper end, and is fastened by bolts or screws F to the handles. I then place cutter G with the lower end fitting firmly on mole D, and the upper end passing through beam A, and it separates the earth at the center, the dirt falling on the mold-board on either side of it.

I then construct two other cutters, H H, which cut the sides of the ditch. These cut-

ters are constructed of one piece, and are bent to pass over the beam, and receive bolt I and braces J J, which steady them by attaching to beam A, as shown. M is a brace resting on mole D, and firmly fastened to the back end of beam A. N represents the draft-rod, which is first passed through gage-bar O, then back into the mold-board or the stay X, immediately above it, as may be desired, and it may either screw in or have a nut on the end.

Gage-bar O I construct of sufficient strength to receive wheel P and bolt R, and notches are made in the upper end that a key, S, Fig. 14, may tighten and firmly hold it at any required depth. Holes are made through it, as many as may be desired, to permit draft-rod N to be adjusted as the ditch becomes deeper, and the draft-rod requires raising. I also cap the front end of beam A to give strength where the gage-rod O and key S pass through it.

Having fully described my invention, the manner of its operation is as follows: Holding my plow in the ordinary way, horses are hitched, as usual, to plows by the draft-rod N. I pass along in the same furrow as often as necessary, until the required depth is obtained, and at each time moving down gage-rod O, that wheel P may always touch the ground.

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

The mold-board E, constructed as described, in combination with cutters H H G and gage-rod O, as and for the purpose herein set forth.

WILLIAM B. TICHENOR.

Witnesses:

M. E. CLARK,
JOHN M. GOAR.