

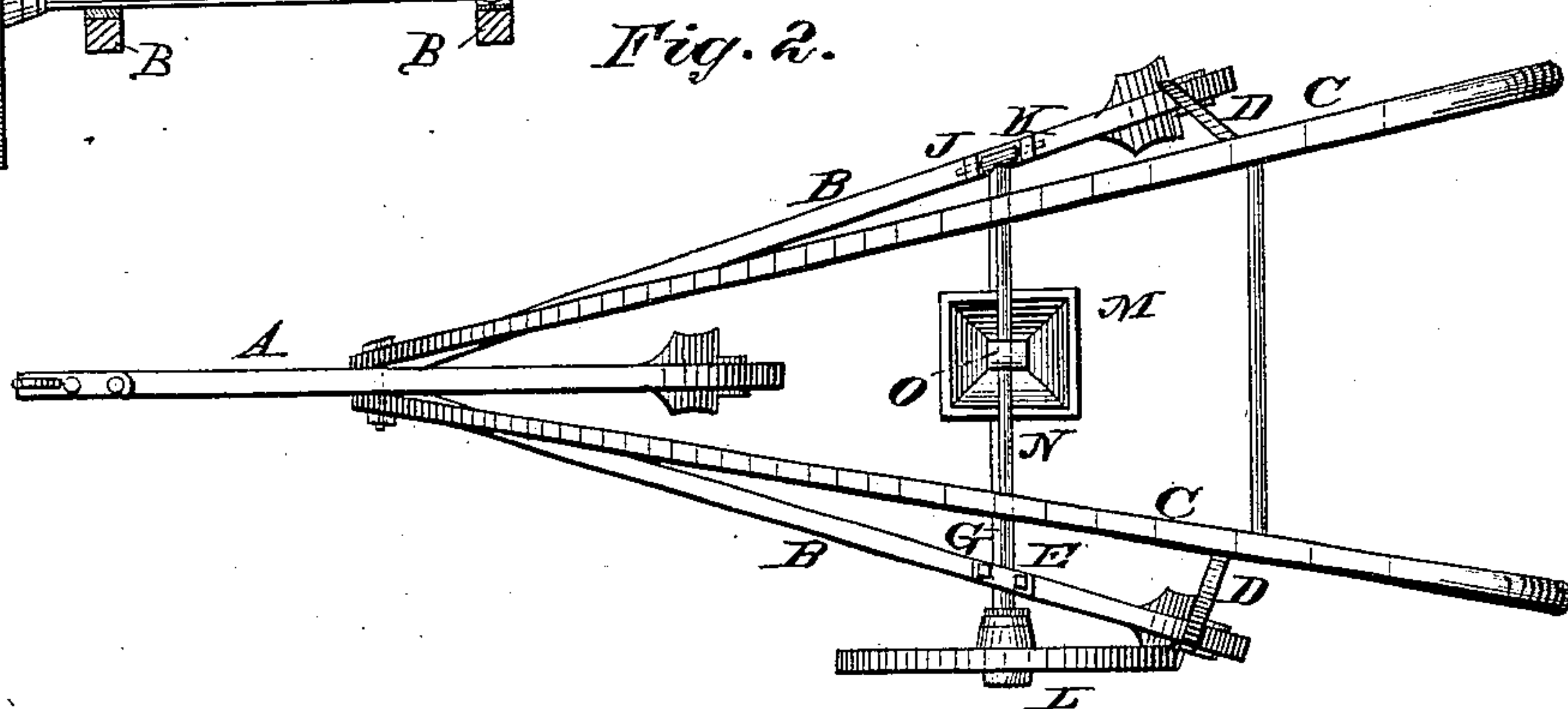
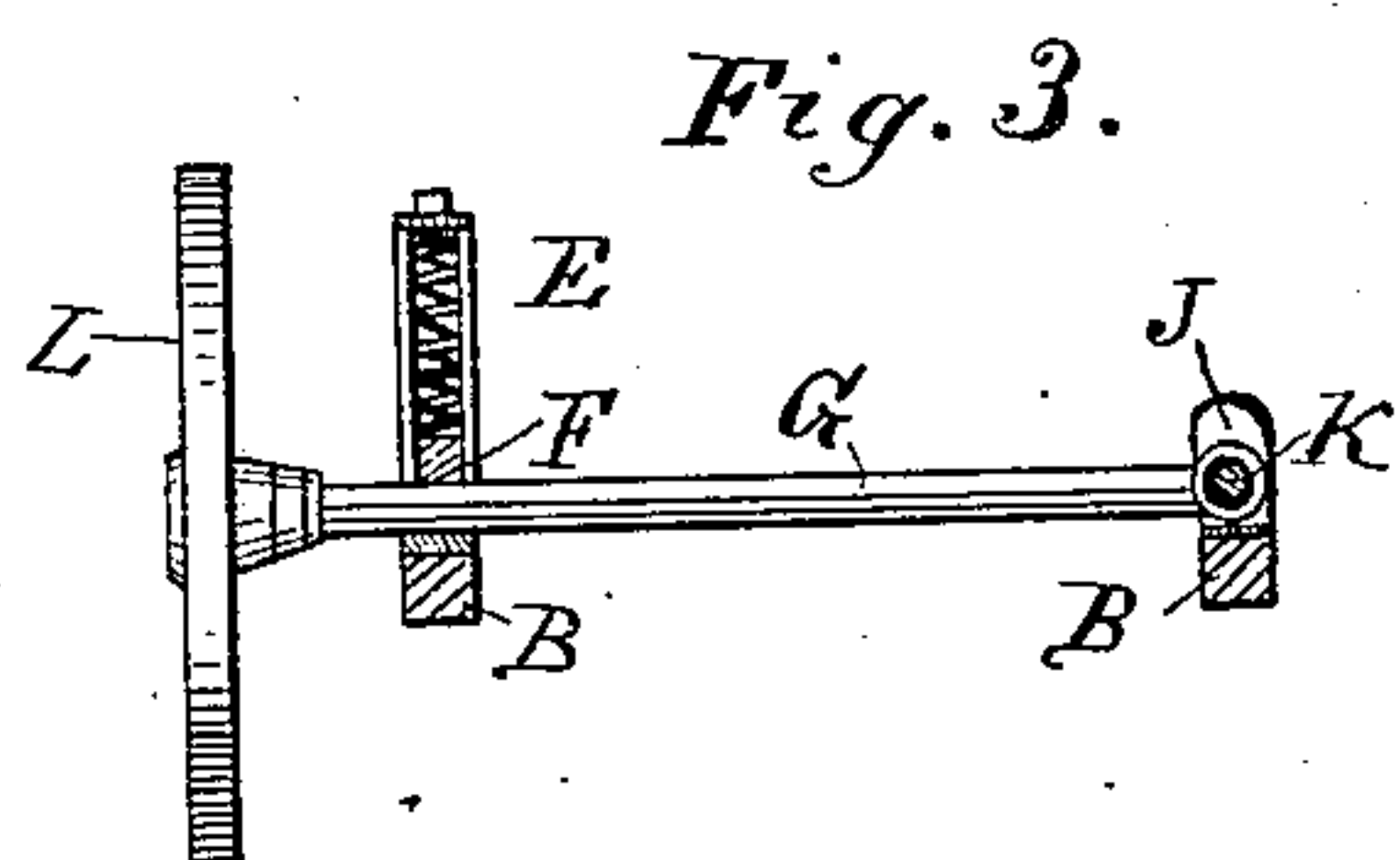
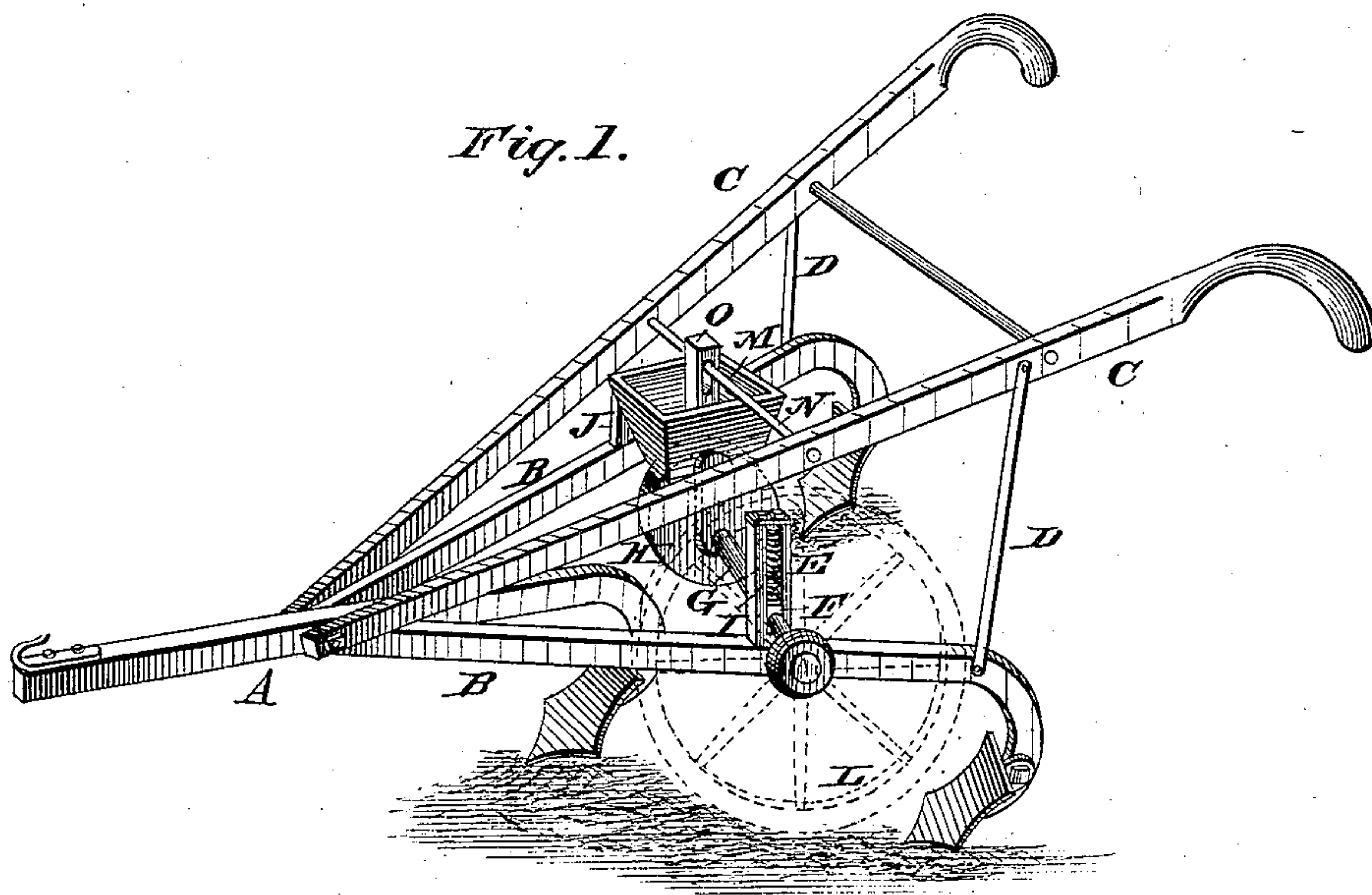
(No Model.)

E. P. MORRIS.

SEED PLANTER.

No. 256,724.

Patented Apr. 18, 1882.



WITNESSES
A. L. Lyne.
Med. L. Dietrich.

INVENTOR
Edward P. Morris
By *Wm. L.*
Attorneys

UNITED STATES PATENT OFFICE.

EDWARD P. MORRIS, OF GLADE HILL, VIRGINIA.

SEED-PLANTER.

SPECIFICATION forming part of Letters Patent No. 256,724, dated April 18, 1882.

Application filed January 5, 1882. (No model.)

To all whom it may concern:

Be it known that I, EDWARD P. MORRIS, of Glade Hill, in the county of Franklin and State of Virginia, have invented a new and useful
5 Improvement in Seed-Planters, of which the following is a full, clear, and exact description, reference being had to the annexed drawings, forming part of this specification.

This invention relates to seed-planters; and
10 its object is to provide a cheap and simple planter which may be drawn by one horse.

In the accompanying drawings, Figure 1 is a perspective, and Fig. 2 a plan view, of my improved seed-planter. Fig. 3 is a detail.

15 The frame-work of the planter consists of the central beam, A, the branching side beams, B, and the handles C, made like those of a plow. The beams A and B are curved downward at their rear ends, and provided with
20 bolts for securing plows thereto. The handles and side beams are secured to the beam A by suitable bolts, and the rear ends of the handles are supported by braces D, secured to the side beams. With this construction the beam
25 A supports the opening-plow, and the side beams, B, which project rearward, support the two covering-plows.

Upon the left side beam, B, is secured a standard, E, having a vertical slot therein, in
30 which is secured a sliding bearing, F, for supporting one end of the shaft G, carrying the seed-dropping wheel H.

Between the bearing F and the upper end of the slot is secured a spiral spring, I, which
35 shall be strong enough to hold the bearing down, and to yield under pressure when necessary.

On the right side beam is secured a slotted standard, J, having an oscillating bearing,

K, secured therein, which shall allow the opposite end of the shaft G to rise or fall as the
40 driving-wheel L on said end passes over obstructions. The object of this construction is to allow the driving-wheel to pass over clods or stones without throwing the plows out of
45 the ground.

A suitable hopper, M, is located over the seed-wheel H and supported upon the shaft G. To allow the hopper to be moved with the shaft
50 without displacement, it is connected to a cross-rod, N, attached to the handles by means of a slotted bar, O. The hopper is thus suspended by means of the rod N, which passes
55 through the slot in the bar O, while it rests upon the shaft G and moves with the shaft as the wheel passes over obstructions.

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

1. The combination, in a seed-planter, of a
60 shaft for the seed-dropping wheel, which is adapted to oscillate vertically at one end, and a hopper which is supported upon the shaft and connected to a cross rod above it by means
65 of a slotted bar, to allow the hopper to oscillate with the shaft, substantially as specified.

2. The combination, in a seed-planter, of the shaft G, having seed-dropping wheel H, the
70 slotted standard E, having elastic sliding bearing F, the slotted standard J, having oscillating bearing K, the driving-wheel L, and a suitable frame-work having opening and covering
plows, substantially as shown and described.

EDWARD P. MORRIS.

Witnesses:

JAS. J. CARPER,
GEO. H. T. GREER.