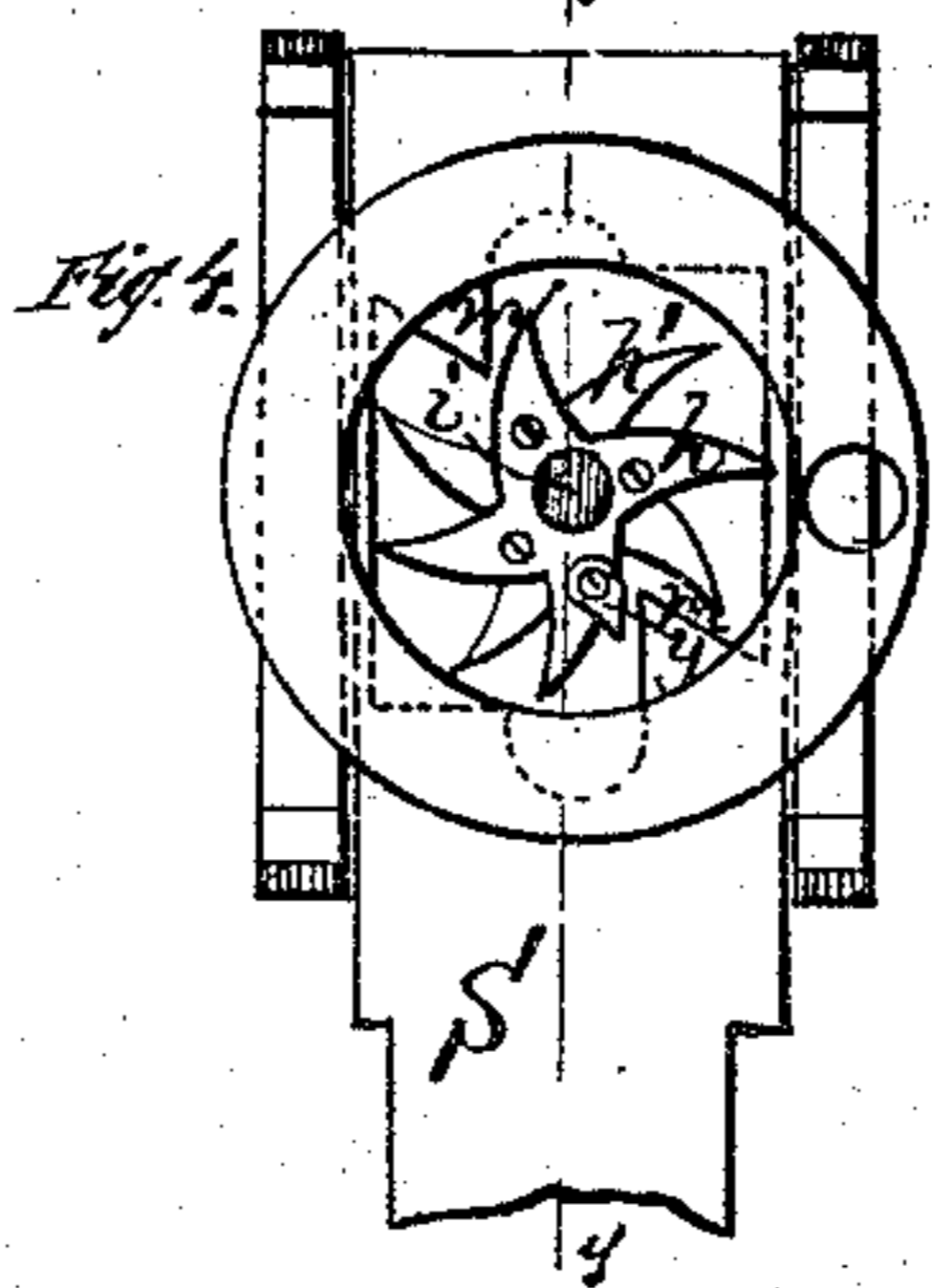
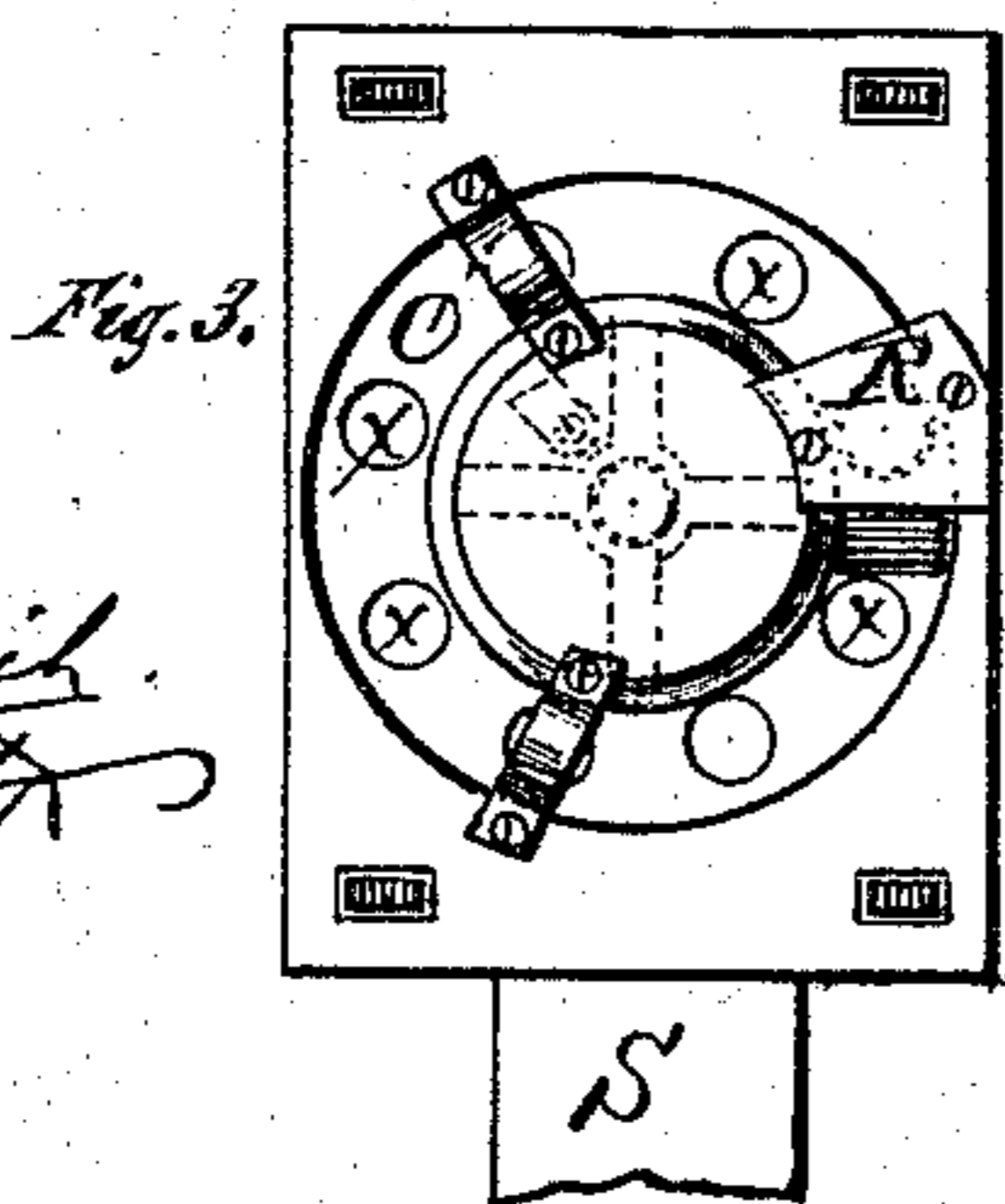
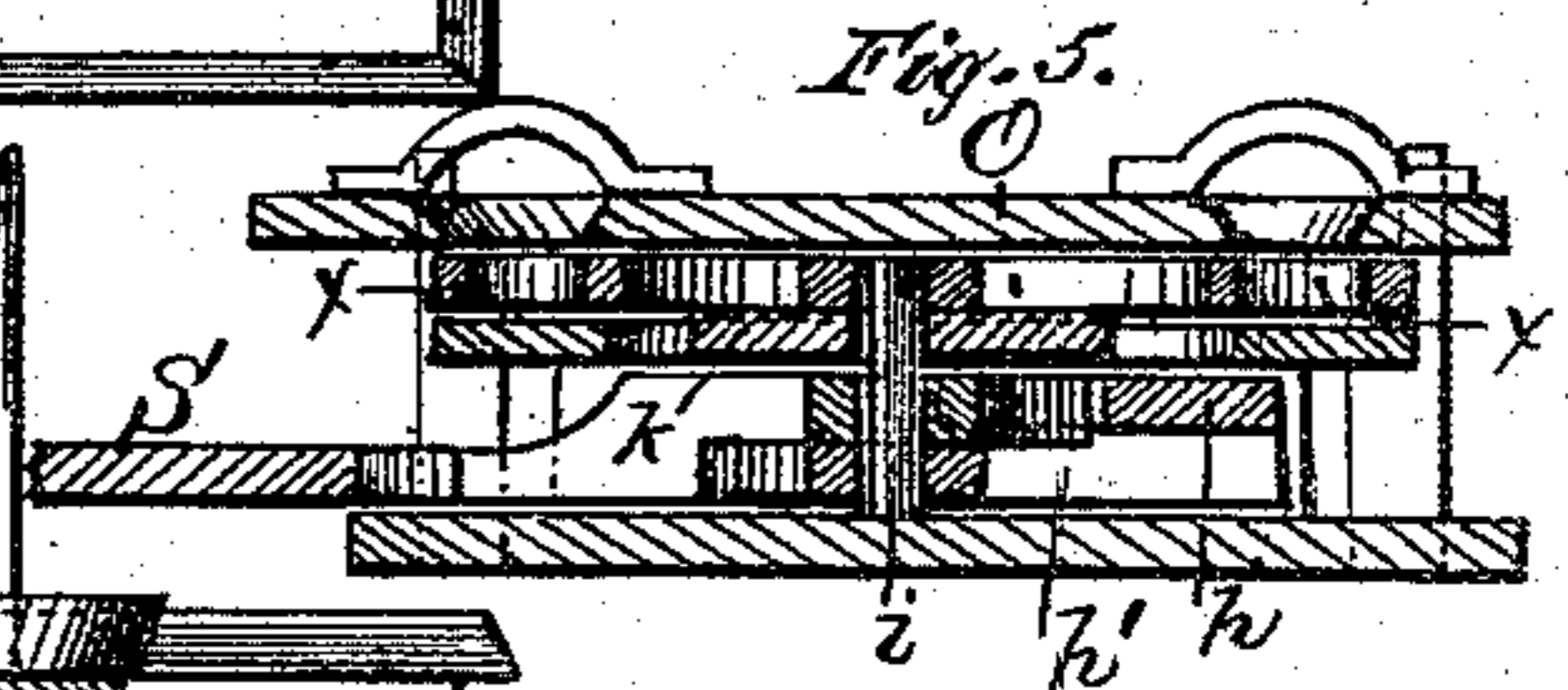
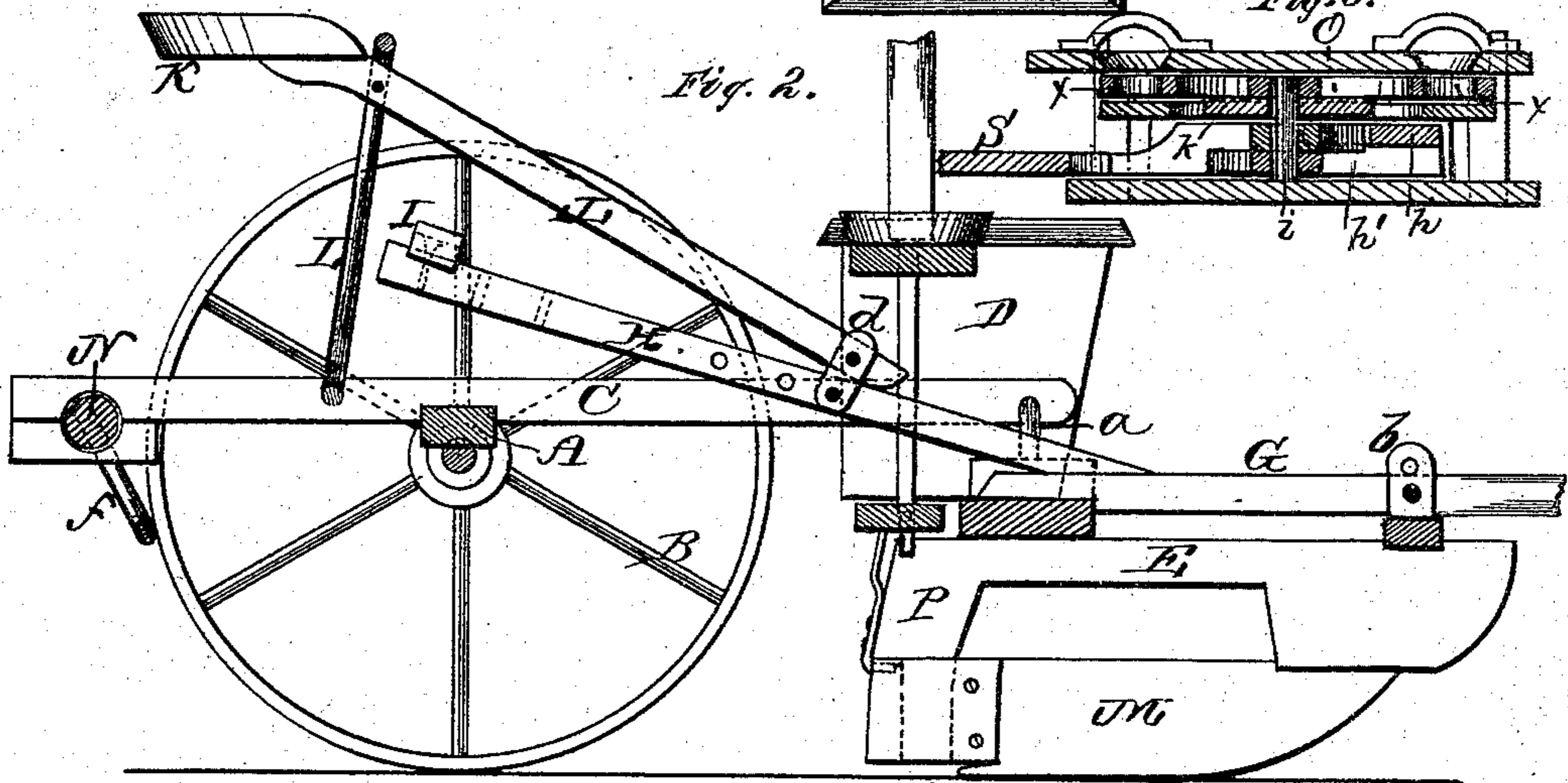
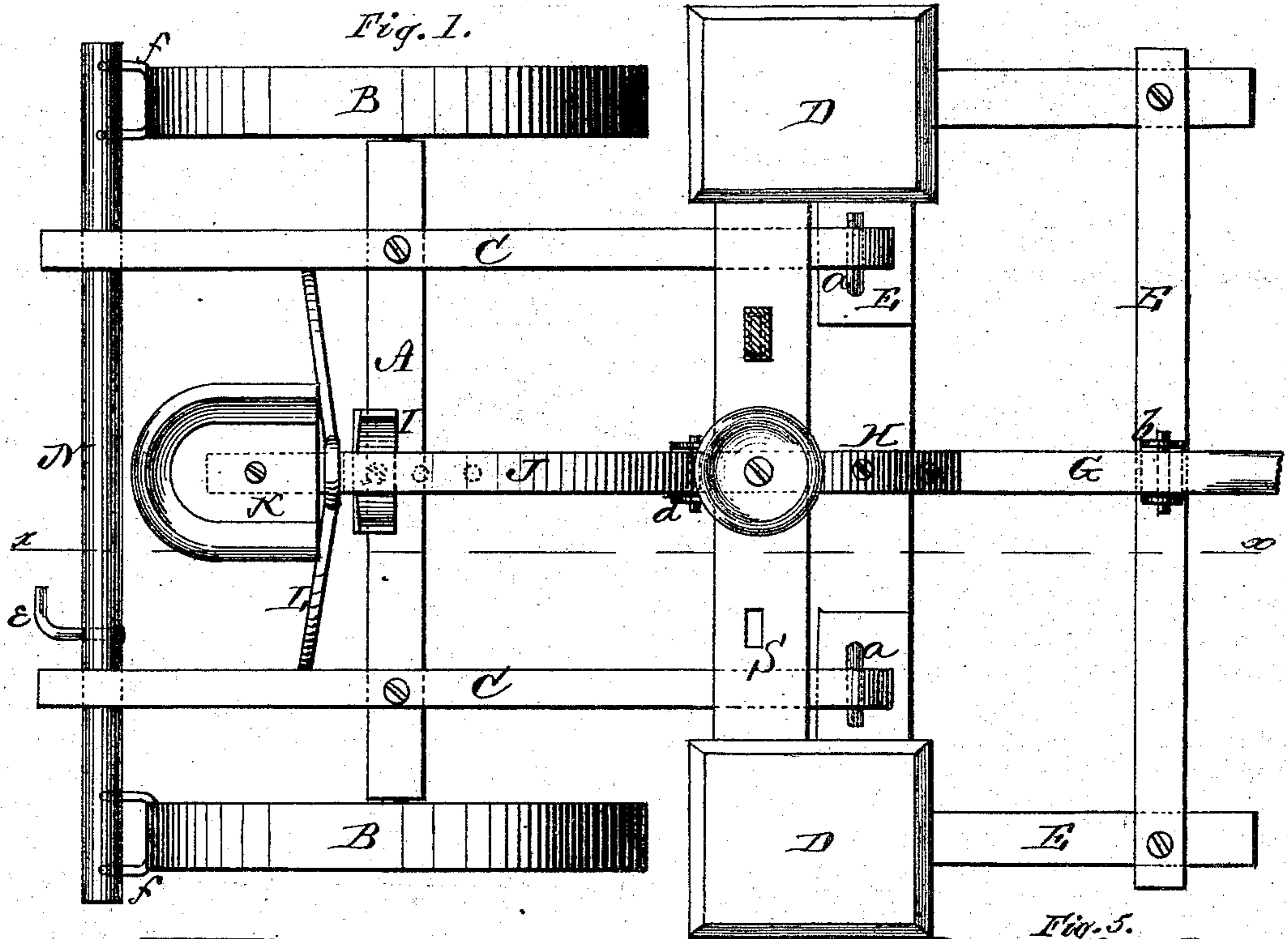


R. A. GREEN.
Corn-Planters.

No. 156,786.

Patented Nov. 10, 1874.



WITNESSES:

P. C. Dietrich.
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INVENTOR:
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UNITED STATES PATENT OFFICE.

ROBERT A. GREEN, OF CARTHAGE, MISSOURI.

IMPROVEMENT IN CORN-PLANTERS.

Specification forming part of Letters Patent No. **156,786**, dated November 10, 1874; application filed September 28, 1874.

To all whom it may concern:

Be it known that I, ROBERT A. GREEN, of Carthage, in the county of Jasper and State of Missouri, have invented certain new and useful Improvements in Corn-Planters; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings and to the letters of reference marked thereon, which form a part of this specification.

The nature of my invention consists in the construction and arrangement of a corn-planter, as will be hereinafter more fully set forth.

In the accompanying drawing, Figure 1 is a plan view of my improved corn-planter. Fig. 2 is a longitudinal section of the same through the line *x x*, Fig. 1. Fig. 3 is a plan view of the dropping mechanism. Fig. 4 is a bottom view of the same; and Fig. 5 is a section thereof through the line *y y*, Fig. 4.

A represents the axle, provided with driving-wheels B B, and upon said axle are secured two parallel side bars, C C. The front ends of the bars C C are connected by loops *a a* with a frame, E, upon which the seed-boxes D D are secured. G represents the tongue, fastened to the frame E, and adjusted slightly up and down in a bracket, *b*, as shown. On the tongue G is secured the front end of an inclined bar, H, which extends toward the rear, as shown in Fig. 2. On the rear end of the bar H is secured a foot-rest, I, which may be adjusted backward and forward, as desired. K represents the driver's seat, which is attached to a bar or arm, J, and the front end of this arm is, by links *d d*, connected with the bar or foot-lever H. The seat-supporting bar J is fastened by means of a pin to a brace, L, attached to the parallel bars C C.

The driver, being seated upon the seat K, with his feet on the foot-piece I, can raise and lower the front part of the frame E, so as to regulate the depth at which the runners M, attached to said frame, will work in the ground.

The seat K may be adjusted back and forth,

as desired, by changing the links *d* in various holes in bar or lever H, for the purpose of balancing the weight of the driver.

In the rear ends of the bars C is mounted a shaft, N, provided with a lever, *e*, and scrapers *f f*, for cleaning the periphery of the driving-wheels B B.

In each seed-box D is a dropping mechanism, constructed in the following manner: In the bottom of the box is a circular revolving wheel, O, provided with eight apertures, *x*, at equal distances apart, forming dropping-chambers, which are in rotation brought under a cut-off, P, above an aperture in the top of the conductor R, leading to the rear of the runner M. The dropping-wheel O revolves around a central post, *i*, and on said post, below the dropping-wheel, are two toothed wheels, *h h'*, fastened together. These wheels are each formed with four curved arms or teeth, as shown in Fig. 4, and they are arranged so that the teeth of one wheel will be opposite the spaces between the teeth of the other wheel. On the upper wheel *h* is a lug, *y*, which enters a slot in a disk, *k*, attached to the under side of the dropping-wheel O, whereby said dropping-wheel is revolved when the toothed wheels *h h'* are turned on the central post *i*. These wheels *h h'* are revolved by means of a slide, S, which is slotted, as shown, and at each end of said slot is formed a tooth, *m*. The tooth *m*, at one end of the slot, is to work in the wheel *h*, and the tooth at the other end is to work in the wheel *h'*.

The slide S extends through both seed-boxes D D, and operates both the dropping mechanisms, it being slotted at both ends for that purpose. As the slide moves in one direction the tooth *m* moves the wheel *h* one-eighth of a revolution by coming against and turning one of the teeth of said wheel, the next tooth of the wheel *h* forming the stop for the movement of the slide by coming in contact with the other side of the tooth *m*. At the return stroke of the slide the other tooth *m* in like manner operates the wheel *h'*, and by this means the dropping-wheel O is revolved one-eighth of a revolution for each stroke of the slide S.

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

1. The combination, with the frame E, flexibly connected to the bars C C, of the tongue G, lever H, with adjustable foot-piece I, adjustable links *d*, arm J, seat K, and brace L, all substantially as and for the purposes herein set forth.

2. The combination of the dropping-wheel O, central post *i*, toothed wheels *h h'*, lug *y*, and slotted disk *k*, substantially as and for the purposes herein set forth.

3. The combination of the dropping-wheel

O, toothed wheels *h h'*, and slotted slide S, formed with the teeth *m m*, all constructed as described, so that the teeth of the wheels *h h'* will be operated upon by the teeth *m*, and also form stops against them, substantially as herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

ROBERT A. GREEN.

Witnesses:

JOSEPH GREEN,
PARKER MOORE.