3 Sheets—Sheet 1.

C. J. SEABROOK & H. HEINE.

COMBINED SEED-PLANTER AND CULTIVATOR.

No. 174,013. Patented Feb. 22, 1876.

Fig. 1.

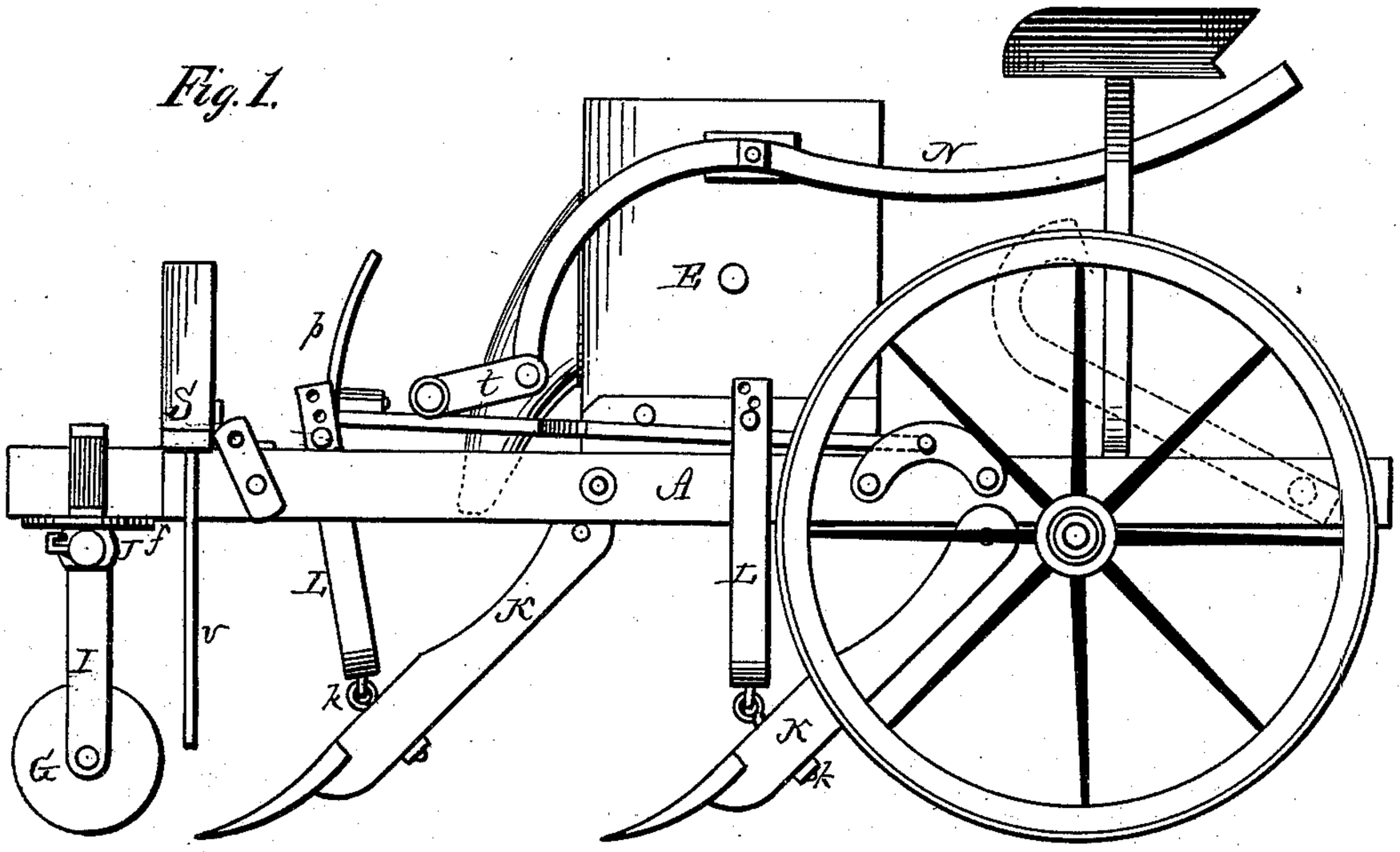
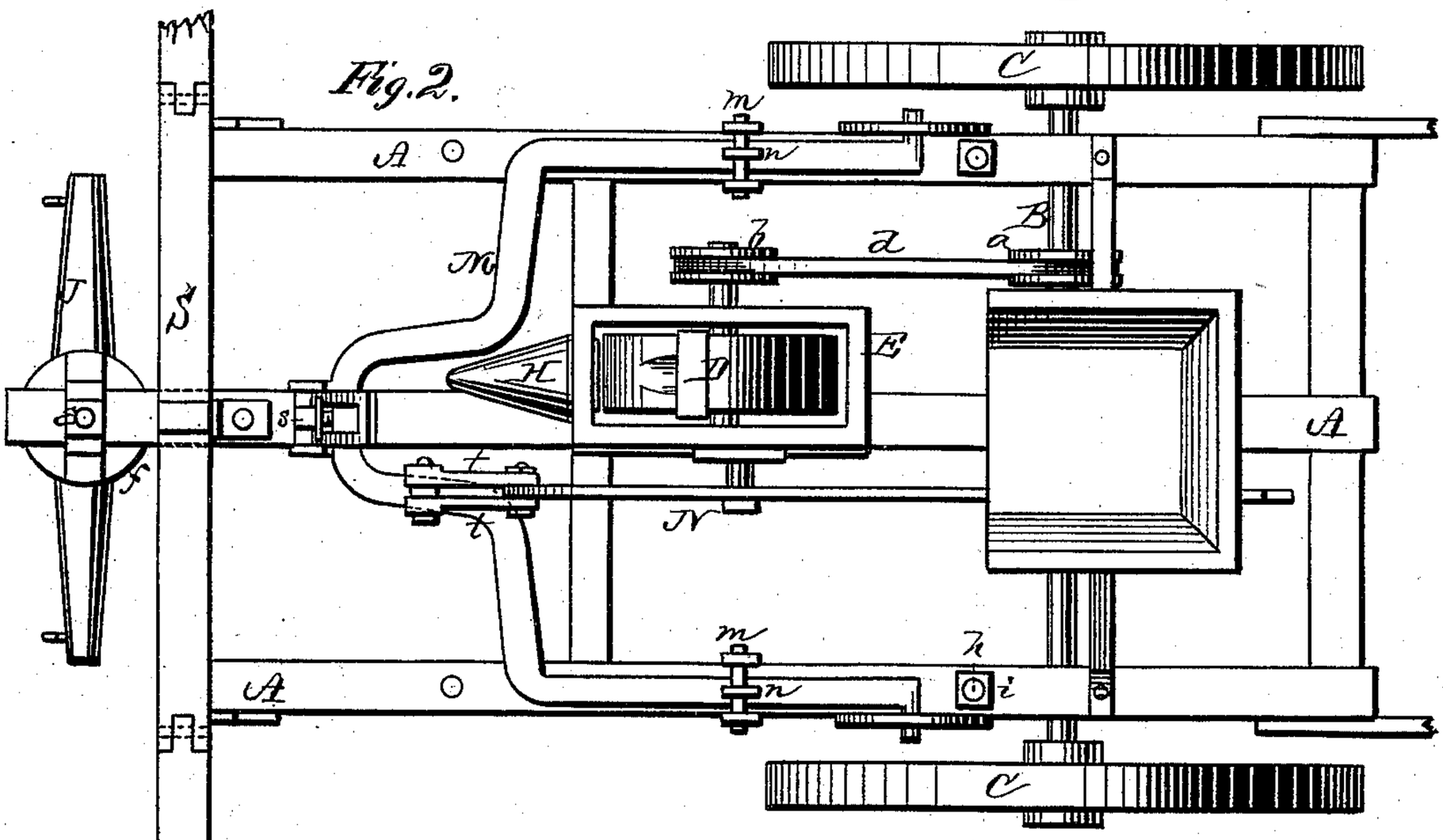


Fig. 2.



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3 Sheets—Sheet 2.

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Fig. 3.

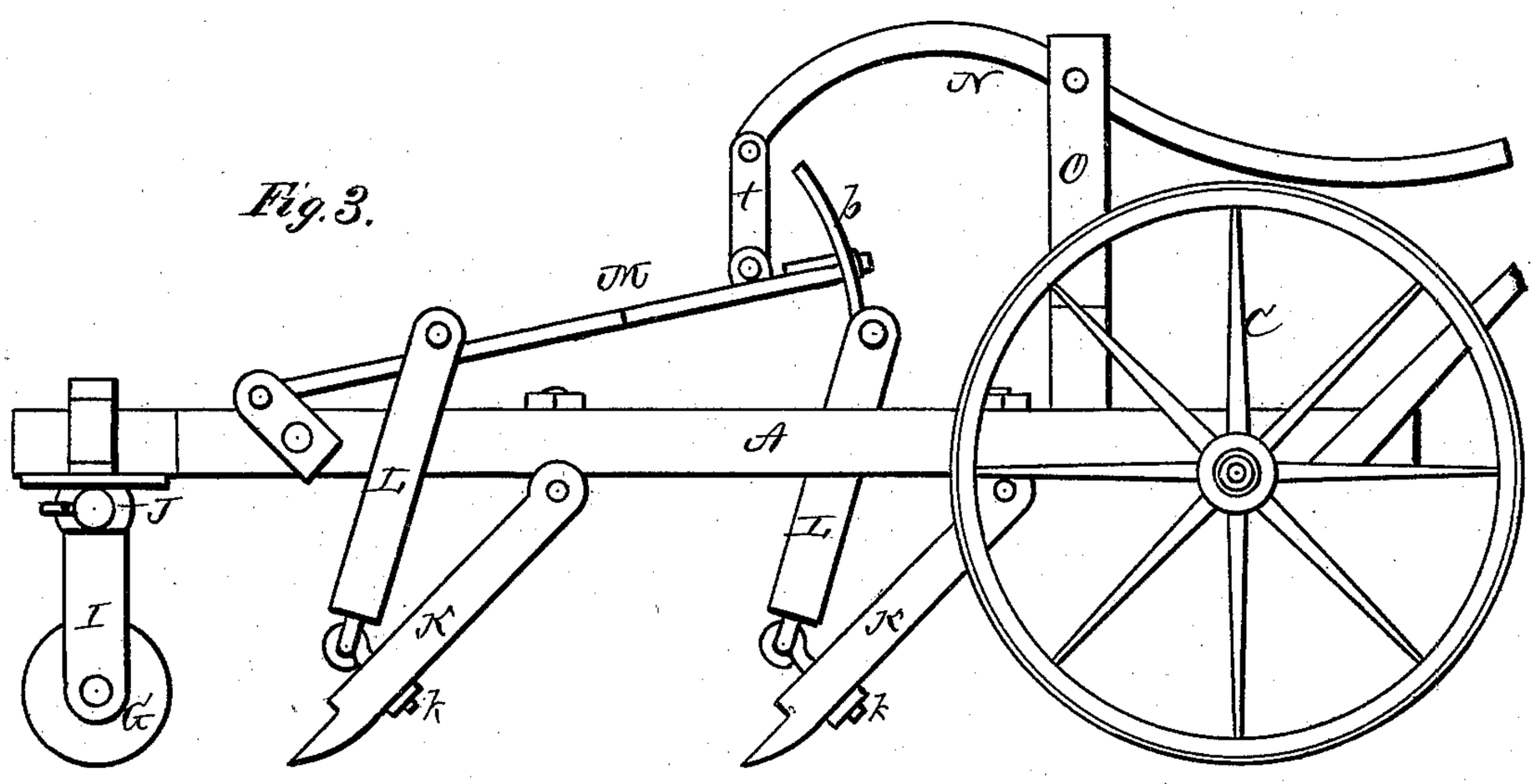


Fig. 4.

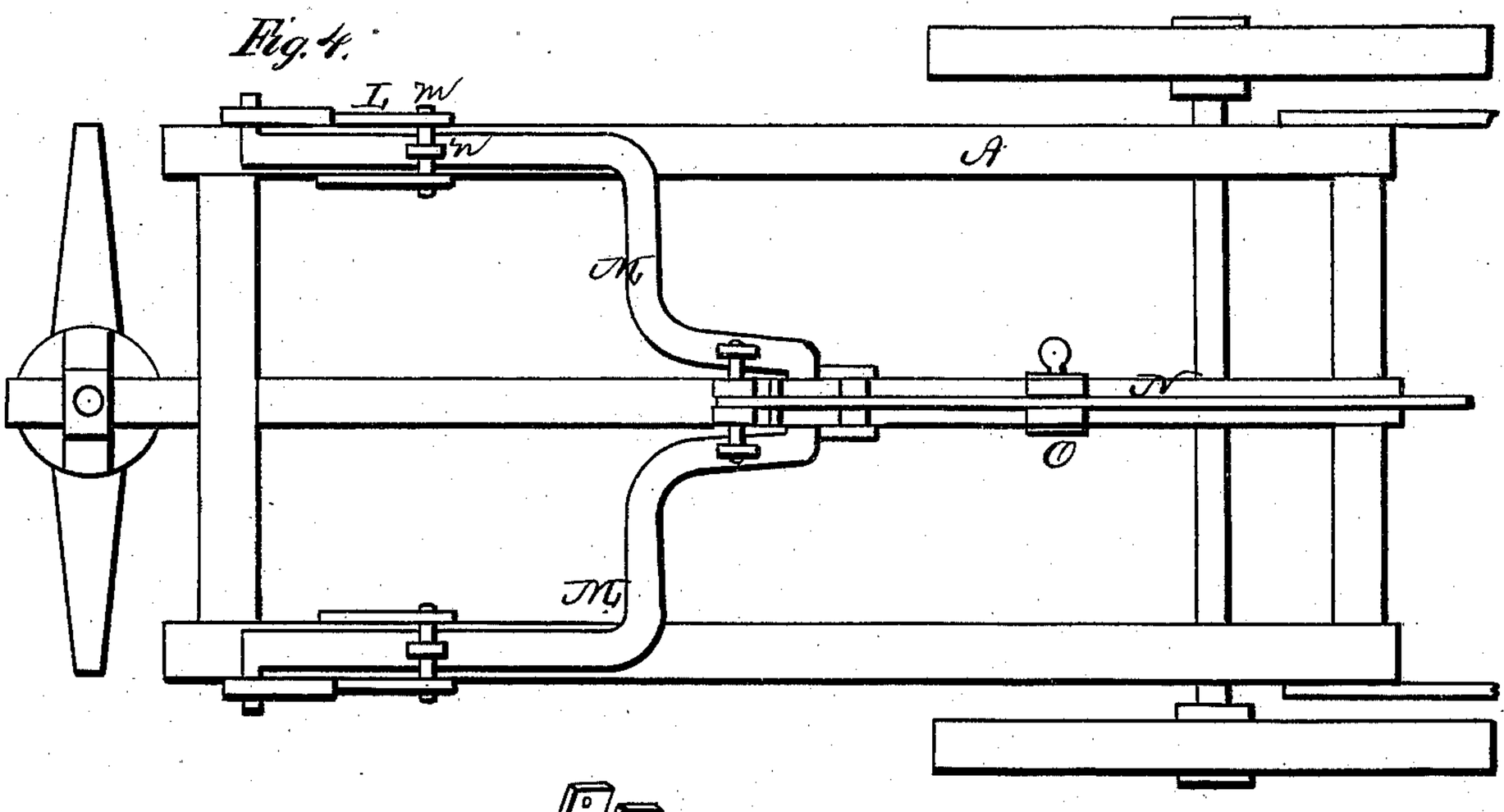


Fig. 5.

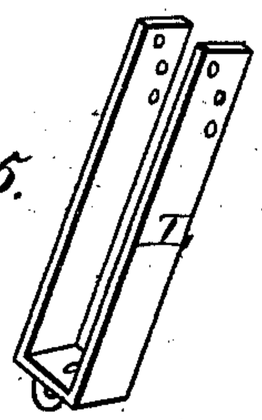
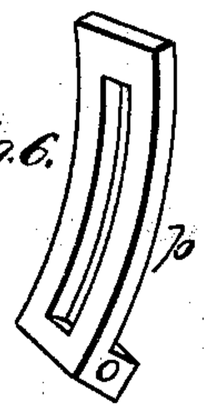


Fig. 6.



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3 Sheets—Sheet 3.

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Fig. 7.

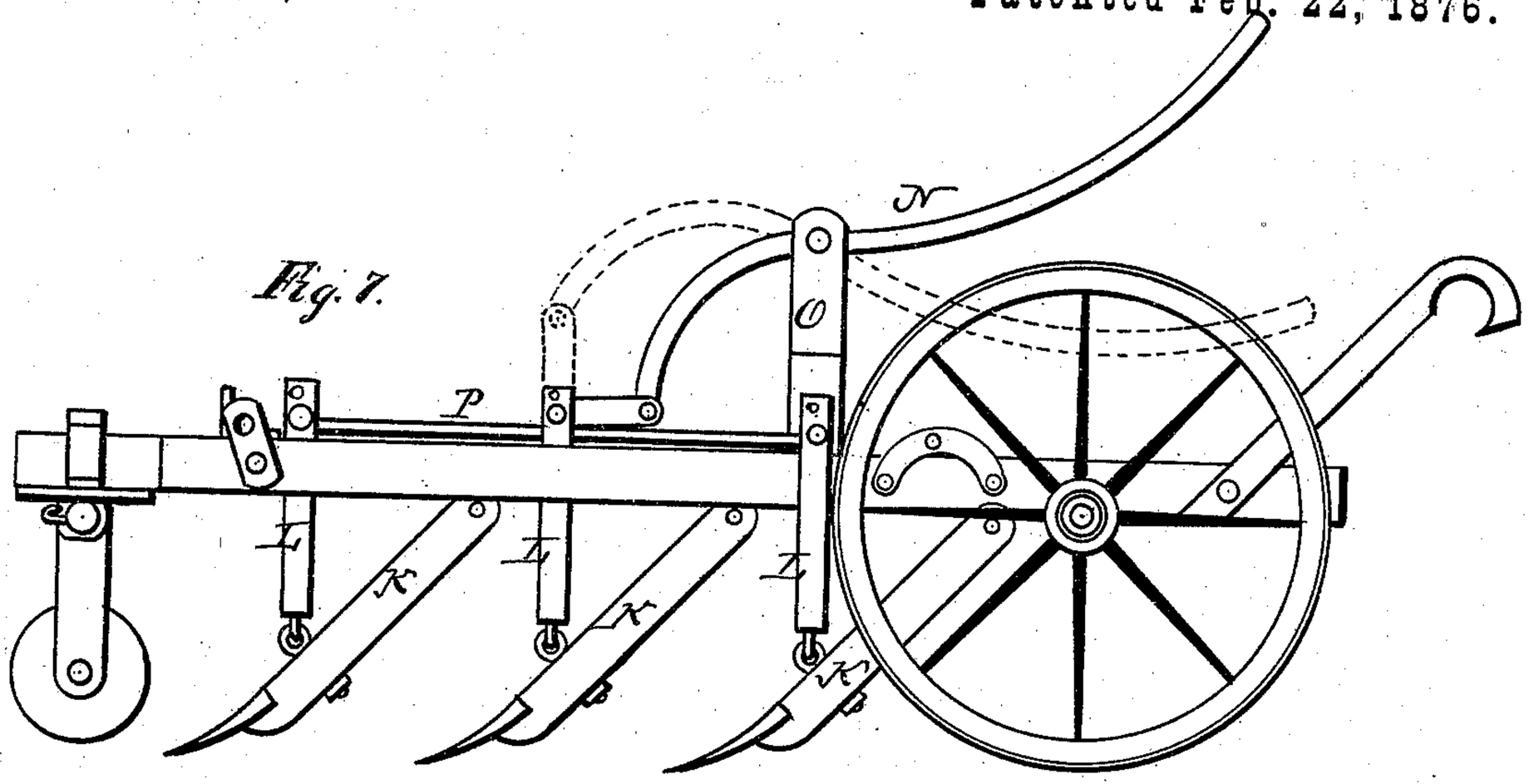


Fig. 8.

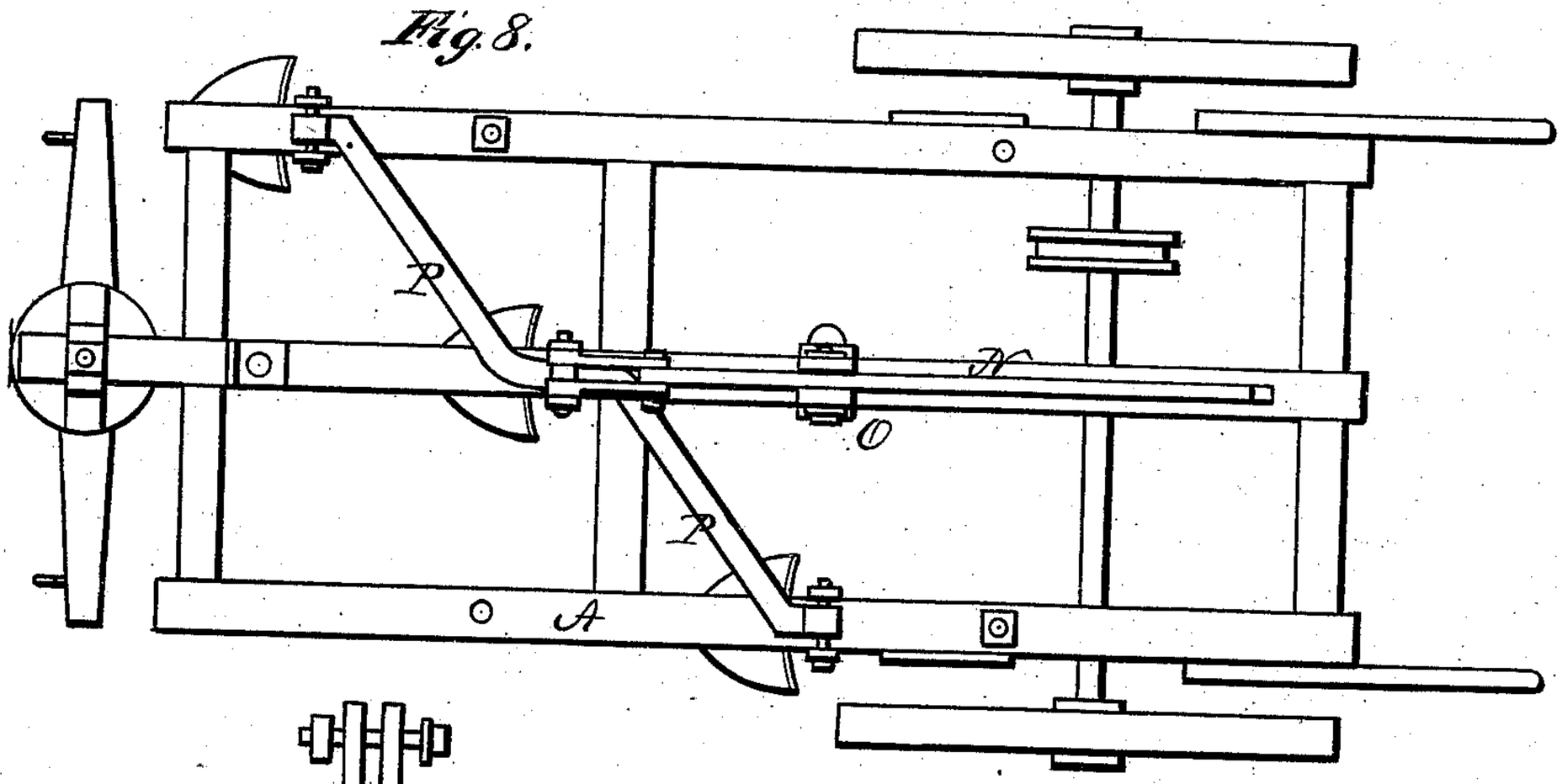


Fig. 9.

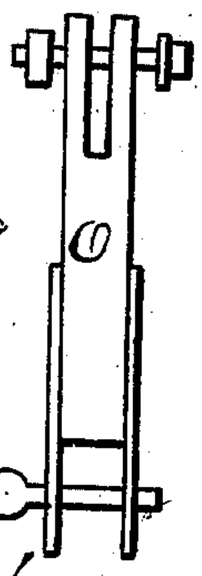
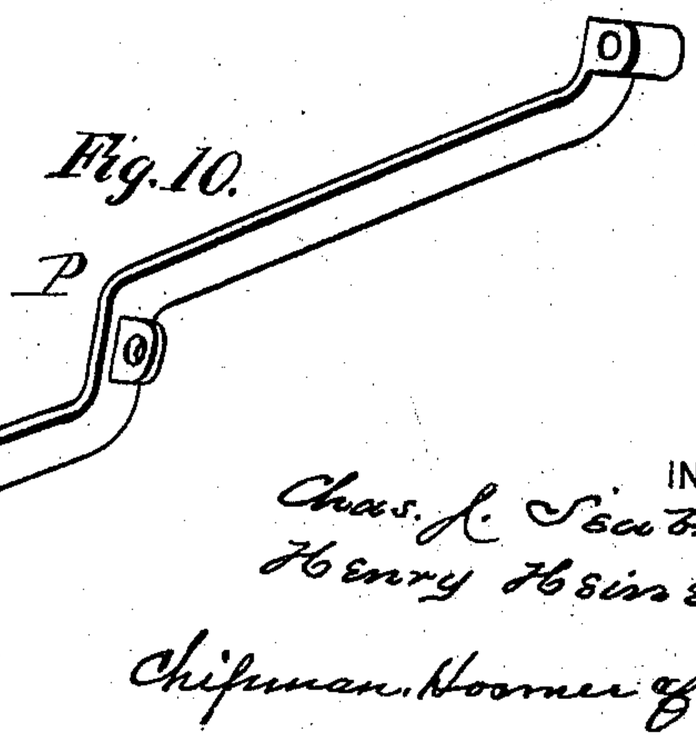


Fig. 10.



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UNITED STATES PATENT OFFICE.

CHARLES J. SEABROOK AND HENRY HEINE, OF TALLADEGA, ALABAMA.

IMPROVEMENT IN COMBINED SEED-PLANTERS AND CULTIVATORS.

Specification forming part of Letters Patent No. **174,013**, dated February 22, 1876; application filed January 8, 1876.

To all whom it may concern:

Be it known that we, CHARLES J. SEABROOK and HENRY HEINE, both of Talladega, in the county of Talladega and State of Alabama, have invented a new and valuable Improvement in Combined Seed-Planters and Cultivators; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side view of our corn-planter and cultivator, and Fig. 2 is a plan view thereof. Fig. 3 is a side elevation thereof; Fig. 4, a plan view; and Figs. 5 and 6, detail views. Fig. 7 is a side view; Fig. 8, a plan view; and Figs. 9 and 10, detail views thereof.

Our invention relates to corn-planters and cultivators; and it consists in the construction and general arrangement of a lifting-frame, as will be hereinafter more fully set forth.

In the annexed drawing, A represents a rectangular frame of any suitable dimensions, supported upon an axle, B, with wheels C C. E is the corn-box, with an interior revolving dropping-wheel, D, operated directly from the axle B by means of the pulleys *a* and *b* and endless belt *d*, the corn being dropped out through the chute or conductor H. The front end of the machine is supported upon a single wheel, G, mounted in a frame, I, which is attached to the under side of the single-tree J, a king-bolt, *e*, pivoting the same to the front end of the center beam of the frame, and under a circle, *f*, attached thereto. K K represent the plow-standards or plow-feet, arranged one under the center beam in front of the corn-box, and one under each side beam in rear thereof. The upper end of each foot K is rounded and slotted for the insertion of the head of an eyebolt, *h*, pivoted therein, said bolt passing vertically up through the beam and fastened by a nut, *i*, thus hinging the plow-foot to the frame. Through the foot K is passed a hook-bolt, *k*, which is hooked into a stirrup, L, which passes up around the beam and extends above the same. On each side beam of the frame is pivoted one end of a bent lever, M, which is curved, as shown, in front of the corn-box. The two side stirrups are connected to the side arms of this lever by a bolt, *m*, passing through the arms of the stirrup and a lug, *n*, on the lever. The front stirrup has a slotted bar, *p*, pivoted at its upper end, which bar is fastened by a bolt, *s*, to the front of the lever. The bolts *m* and bar *p* may be adjusted up and down in the stirrups by means of holes therein, for the purpose of regulating the depth at which the plows fastened to the standards are to work in the ground. The lever M is, by a link, *t*, connected with a lever, N, pivoted to the side of the corn-box, by means of which the plow-standard may be turned forward on its hinges, so as to raise the plows entirely out of the ground. When arranged in this manner the front plow opens the ground for the corn to be dropped therein, and the two rear plows cover the same.

For finishing a narrow row of cotton or corn, or any grain planted in drill, at one operation, the corn-box is removed, the single plow is placed in rear and the two plows in front, the lifting lever or frame M reversed, and the lever N pivoted in the upper end of a standard, O, fastened to the center beam of the frame. When used for this purpose the wheels should be placed on a short axle within the frame A.

For finishing wide rows by moving once up and down, one plow is attached to each beam, one in advance of the other, and in place of the lifting-frame M an angular bar, P, is used, and the lever N pivoted to the standard O, connected to said bar. In this case one of the wheels should be outside and the other inside of the frame.

On the front end of the frame is secured the marker S, consisting of a straight bar, with a short bar at each end pivoted thereto, and to such short bar is fastened a rod, *v*, pointing downward, as shown.

What we claim as new, and desire to secure by Letters Patent, is—

The lifting-frame M, constructed as shown, pivoted to the frame A, and capable of being reversed, so as to arrange the plows connected thereto in different positions for different kinds of work, as set forth.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

HENRY HEINE.
CHAS. J. SEABROOK.

Witnesses:
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L. B. OGLETREE.