

(No Model.)

3 Sheets—Sheet 1.

R. H. C. ENYEART.
Corn-Planter.

No. 228,332.

Patented June 1, 1880.

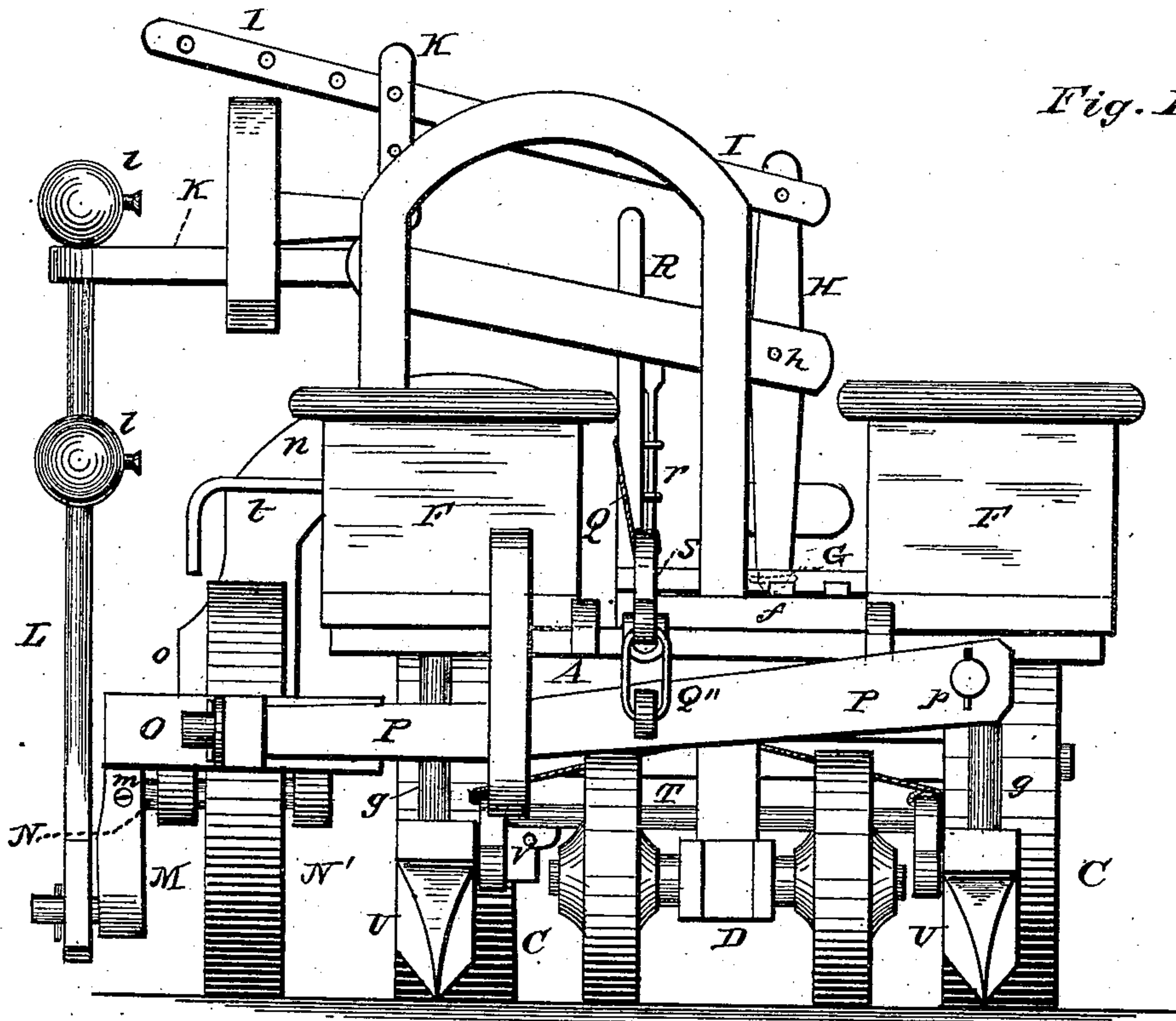


Fig. 1.

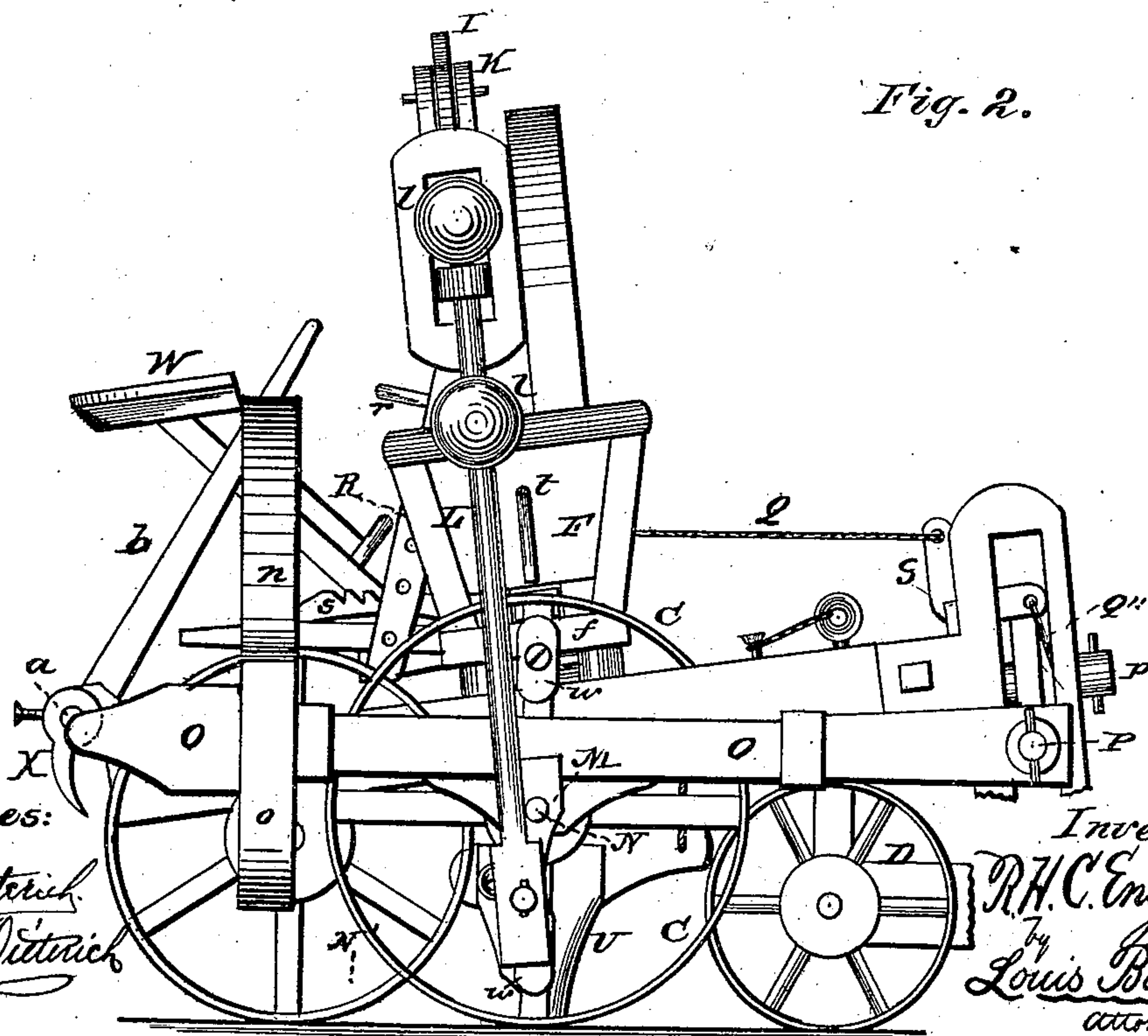


Fig. 2.

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Fig. 3.

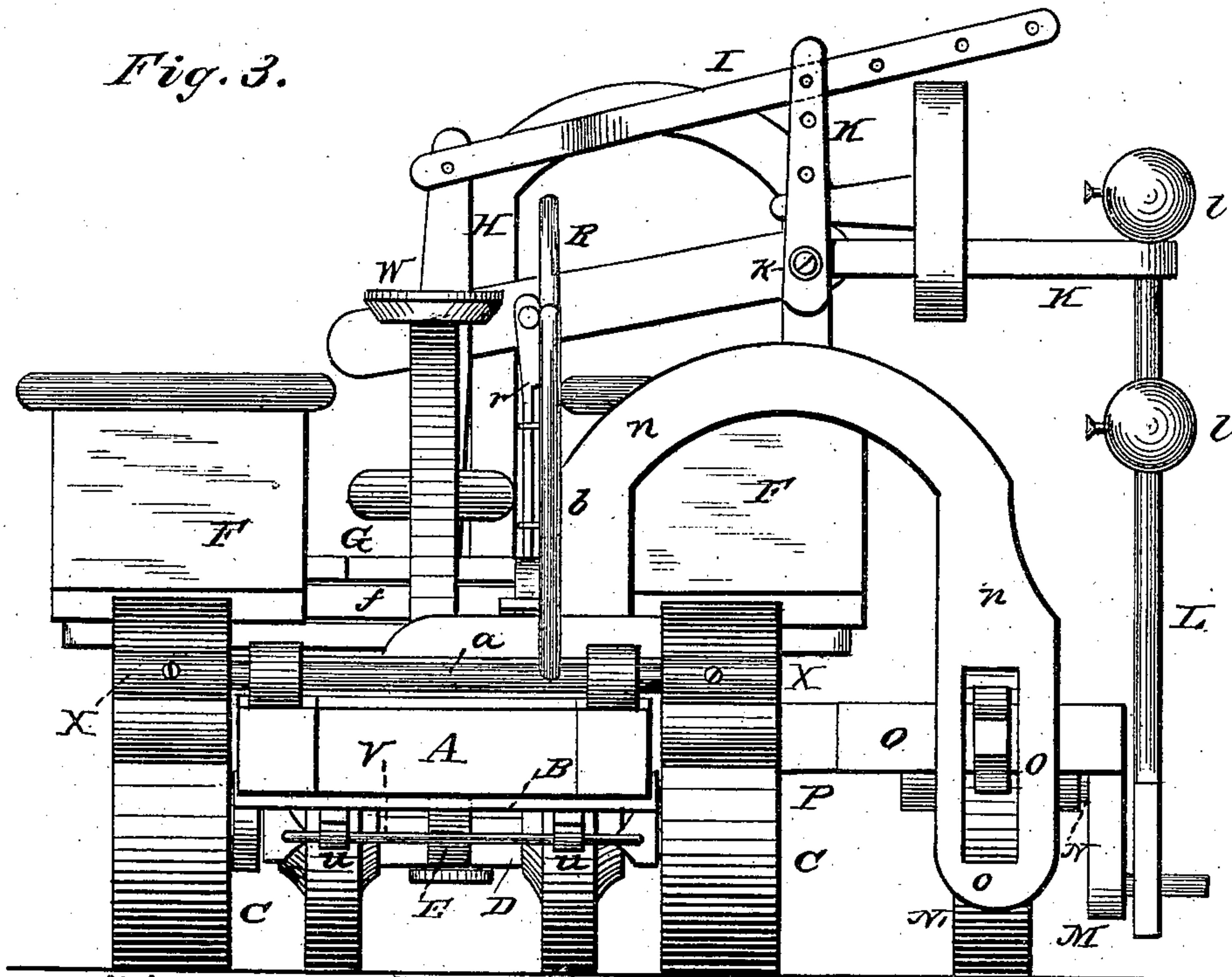
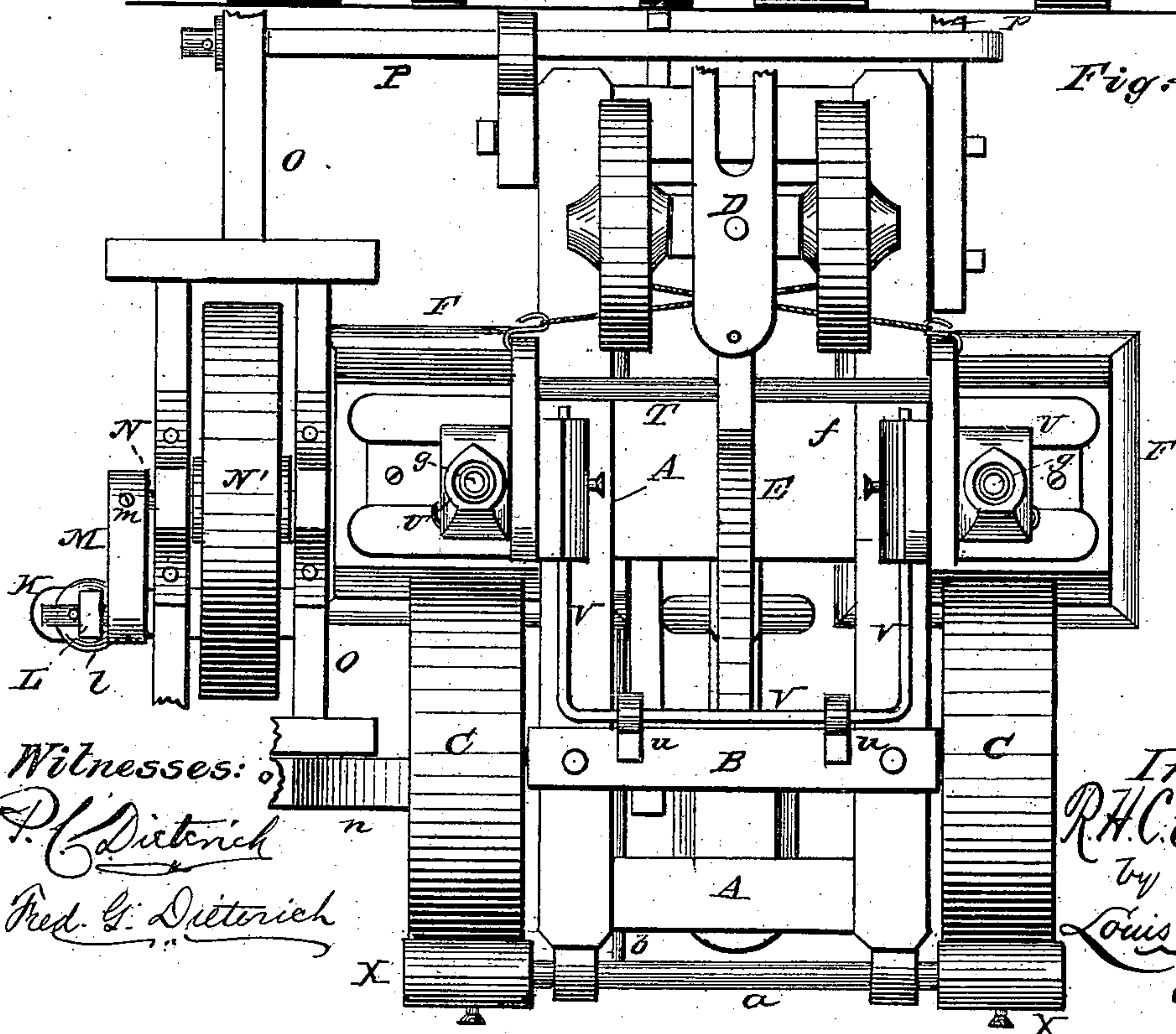


Fig. 4



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Fig. 5.

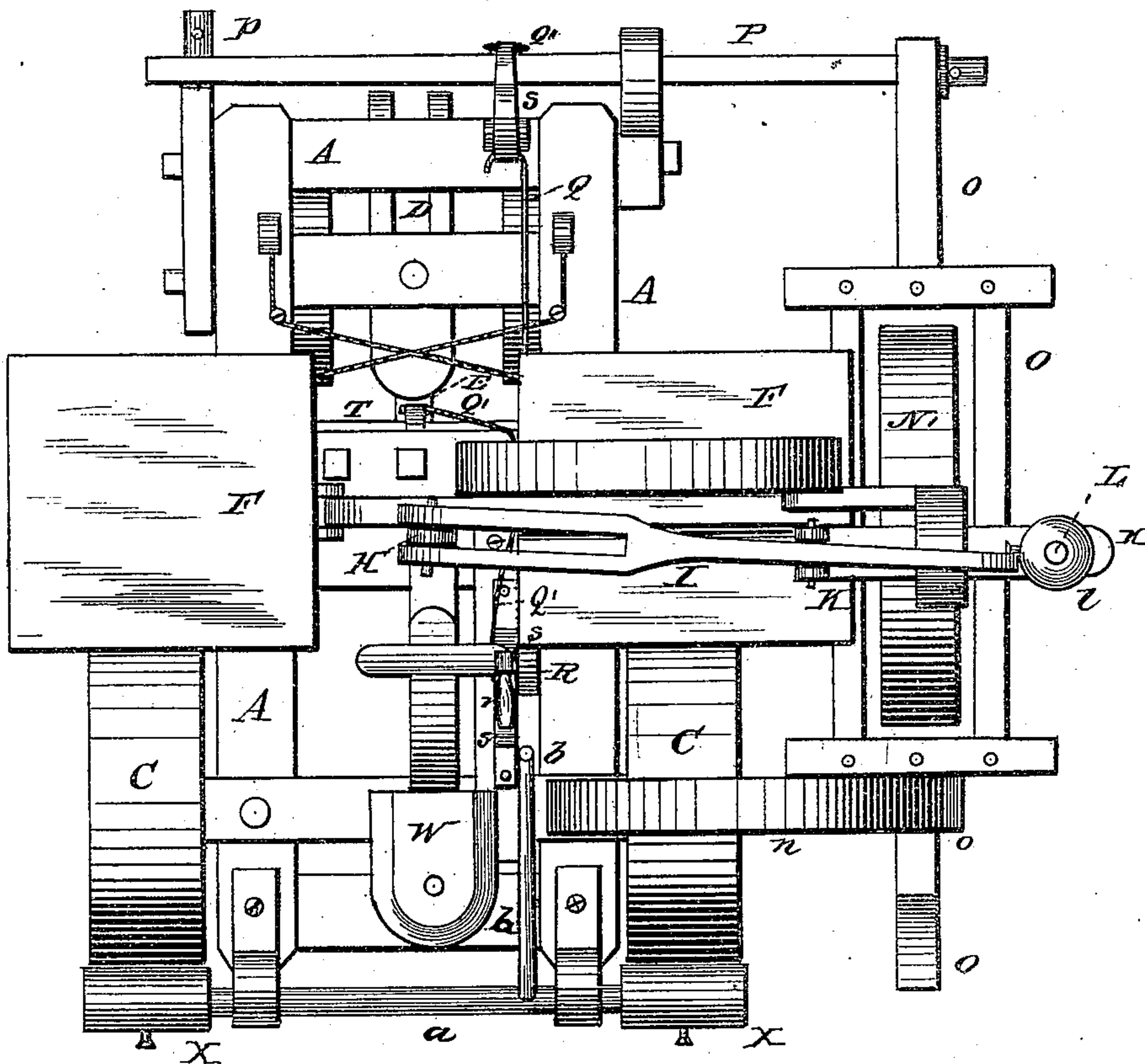
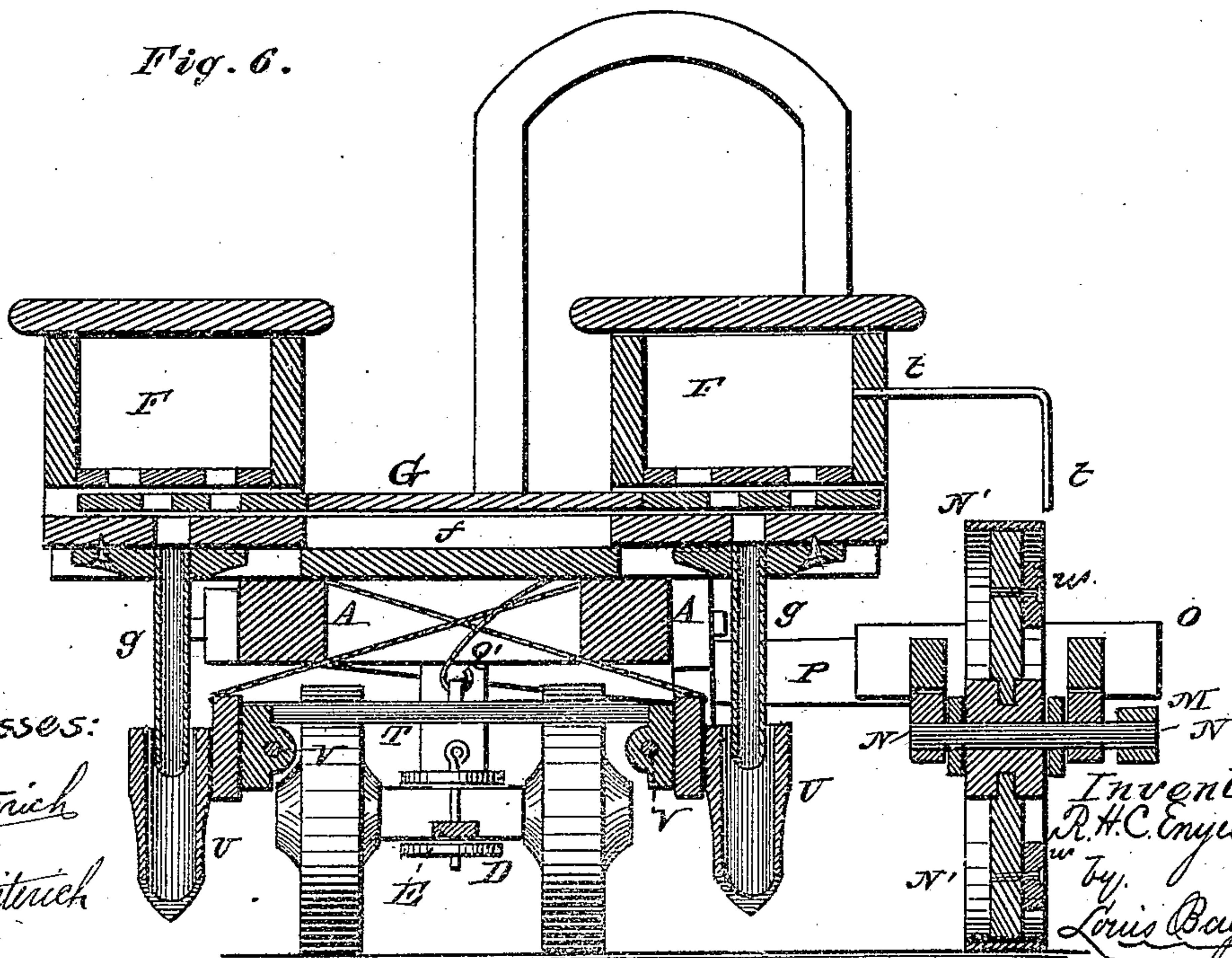


Fig. 6.



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UNITED STATES PATENT OFFICE.

RICHARD H. C. ENYEART, OF LA GRO, INDIANA.

CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 228,332, dated June 1, 1880.

Application filed March 11, 1880. (No model.)

To all whom it may concern:

Be it known that I, RICHARD HENRY C. ENYEART, of La Gro, in the county of Wabash and State of Indiana, 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 of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a front elevation. Fig. 2 is a side view. Fig. 3 is a rear elevation. Fig. 4 is a plan of the under side or bottom of the machine. Fig. 5 is a top plan; and Fig. 6 is a transverse vertical section taken through the seed-boxes, seed-slide, and drills.

Similar letters of reference indicate corresponding parts in all the figures.

My invention relates to self-dropping corn-planters; and it consists in the improved construction and combination of parts, hereinafter more fully described, and particularly pointed out in the claims.

On the three sheets of drawings hereto annexed, A is the frame of the machine, the rear end of which is supported upon the axle B and wheels C C.

The front part of the frame is supported upon a swiveled truck, D, which is connected with the axle B by a hinged reach, E, as will be seen more clearly by reference to the bottom plan, Fig. 4 of the drawings.

The tongue, to which the draft is attached, is hinged in the forward forked end of the truck-beam D.

F F are the seed-boxes, two in number, which are carried upon a cross-piece, f, bolted upon frame A, and G is the reciprocating seed-slide, which is operated in the following manner: Upon the middle of the seed-slide is pivoted an upright lever-arm, H, having its fulcrum at h, and hinged at its upper end in a connecting-rod, I, the other end of which is pivoted in a bell-crank, K, which has its fulcrum at k. The connecting-rod or pitman I is adjustable in its relation to levers H K so as to regulate the length of stroke, and thereby regulate the stroke or throw of the seed-slide G.

The bell-crank or angle lever K is operated by a pitman, L, which works through a slot in the end of the projecting arm of the crank, and is provided with two adjustable stops, l l. The lower end of pitman L is pivoted in a crank, M, which is secured adjustably upon the projecting end of a drive-shaft N, by a set-screw, m.

N' is the drive-wheel, which, with its short shaft, is journaled within a frame, O, the front end of which is hinged in a beam, P, passing transversely across the front end of the machine at right angles to the wheel-frame O, and pivoted at the opposite side of the machine upon a stud, p. The rear end of the wheel-frame is inserted through a keeper, o, which forms the lower end of the bent arm n. (See Fig. 3.)

The front end of frame O may be raised or lowered by a rod or chain, Q, which connects a lever, R, with an angle-lever, S, the other arm of which is connected by a short link or chain, Q'', to the hinged beam P. A cord or chain, Q', passes from the same lever R down to a cross-bar, T, which connects the drills U U, secured opposite to each other upon a bent rod, V, pivoted in staples u u upon the main axle B. Thus, by operating lever R, which is within easy reach of the driver's seat, (denoted by the letter W,) the front end of the drive-wheel frame O and the drills U U are elevated simultaneously and in the same proportion.

The lever R is provided with a spring-catch, r, which engages with a notched rack, s, secured upon the frame of the machine, by means of which the lever may be held in any given position, and, in consequence, the drive-wheel and drills adjusted at their proper elevation in reference to the main frame of the machine.

X X are the scrapers for clearing the main wheels C C of dirt. These are operated by a rod, a, and lever b, which latter is within easy reach of the driver's seat W.

If it is desired to drop the corn in hills three and a half feet apart, the circumference of the drive-wheel N' should be just twice that length, or seven feet. Two markers, w w, are placed on spokes of the drive-wheel diametrically opposite to each other, and the drive-wheel is so adjusted that the said markers shall be in a vertical line with each other and the upper-

most of them just opposite to the pointer *t*. At the same time crank *M* is adjusted upon its shaft *N*, with its end opposite to one of the markers *w*, and by now starting the machine
 5 the pitman *L*, which connects crank *M* with the bell-crank *K*, will make an up and a down stroke alternately at every one-half revolution of the wheel. It follows that the bell-crank
 10 *K*, pitman or connecting-rod *I*, lever-arm *H*, and the seed-slide *G*, will be operated at like intervals, thus dropping the seed twice during the entire revolution of the drive-wheel *N'*, or in hills that are exactly three and a half feet apart.

15 The main wheels *C C* of the machine are placed just back of the drills *U U*, so as to cover the seed as it is dropped from the seed-boxes through the spouts *g g* and drills into the hills.

20 By adjusting the drills by means of lever *R* the corn may be planted deep or shallow at will, and only one hand is required to operate the machine. There is no strain upon the necks of the team, inasmuch as the front part
 25 of the machine is supported upon the truck *D*, and the hills are made in perfectly straight rows and at uniform and equal distances from each other.

30 Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The combination, with the frame *A*, having axle *B* and wheels *C C*, and provided with the swiveled truck *D*, of the pivoted arm or beam *P*, hinged wheel-frame *O*, carrying
 35 the drive-shaft *N* and drive-wheel *N'*, link *Q''*, bell-crank *S*, connecting rod or chain *Q*, and adjustable lever *R*, whereby the arm *P* and wheel-frame *O*, with its adjuncts, may be adjusted vertically, substantially as and for the
 40 purpose herein shown and specified.

2. In combination, the adjustable lever *R*, provided with connecting rods or chains *Q Q'*, bell-crank *S*, link *Q''*, pivoted arm *P*, hinged
 45 wheel-frame *O*, carrying the drive-shaft *N* and drive-wheel *N'*, and hinged frame *V*, carrying the drills *U U*, and provided with the cross-bar *T*, whereby the said wheel-frame and said drills may be raised or lowered simultaneously
 50 and to a like extent by operating the lever *R*, substantially as and for the purpose herein shown and set forth.

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

RICHARD H. C. ENYEART.

Witnesses:

WILLIAM M. REED,
 WILSON R. ADAMS.