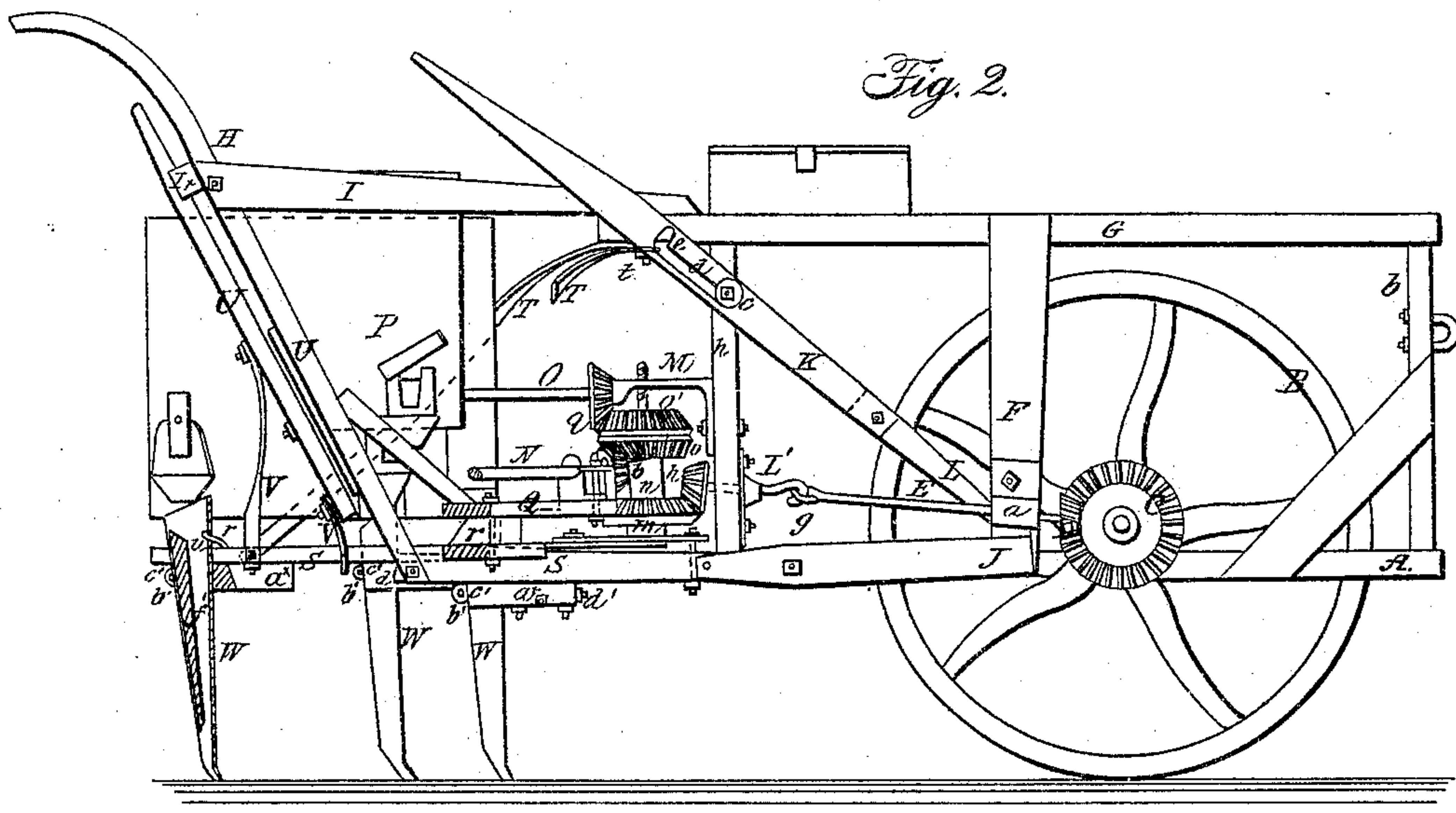
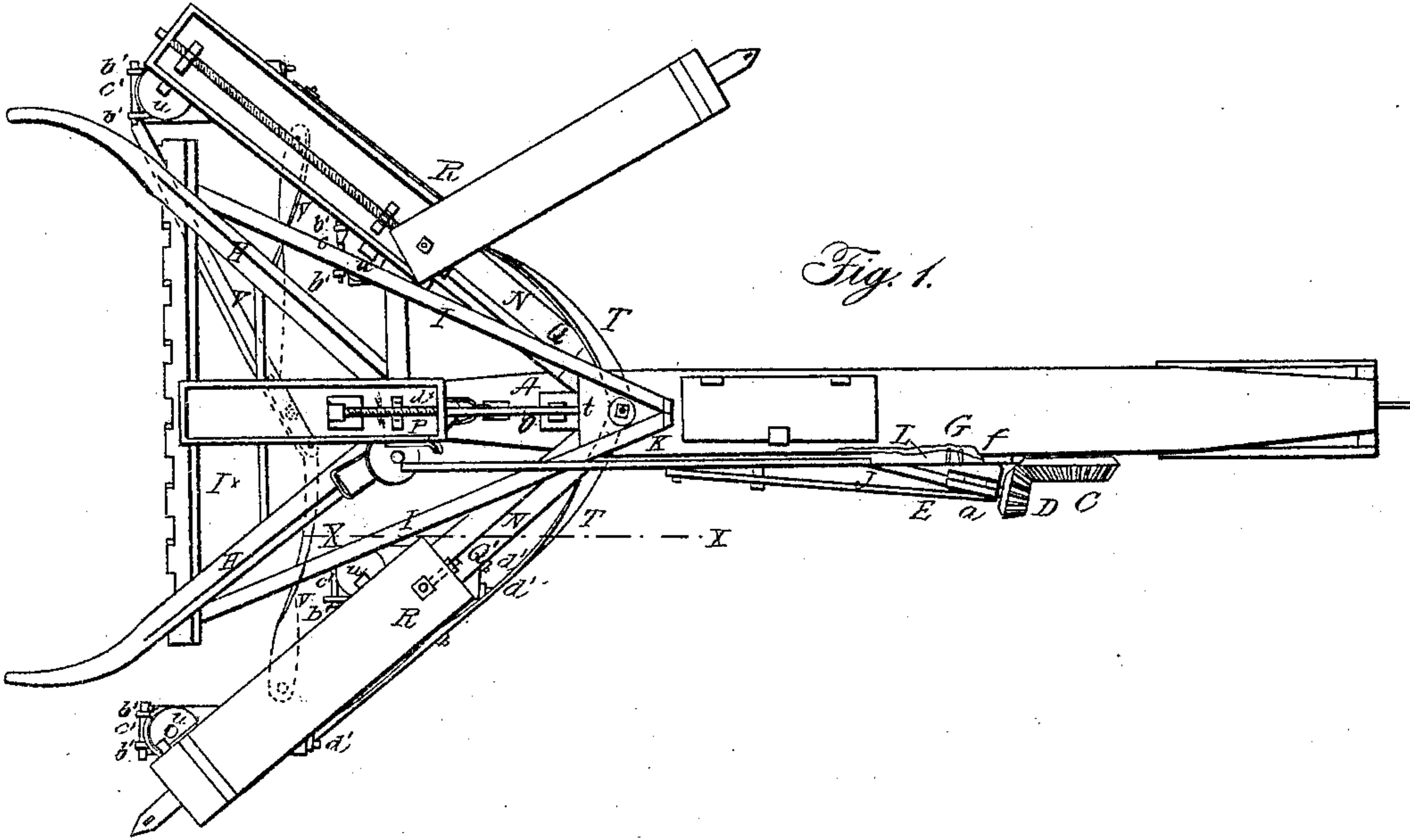


### Seed Planter.

Patented Nov. 13, 1866.



**Witnesses:**

Gas A. Service  
Wm. Sworn

**Inventor:**

Henry Thomaon  
Per S. Munroe & Co  
attorneys



# UNITED STATES PATENT OFFICE.

HENRY THOMASON, OF LA FAYETTE, INDIANA.

## IMPROVEMENT IN SEEDING-MACHINES.

Specification forming part of Letters Patent No. 59,681, dated November 13, 1866.

*To all whom it may concern:*

Be it known that I, HENRY THOMASON, of La Fayette, in the county of Tippecanoe and State of Indiana, have invented a new and Improved Seeding-Machine; 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 make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a plan or top view of my invention; Fig. 2, a side sectional view of the same, taken in the line *x x*, Fig. 1.

Similar letters of reference indicate like parts.

This invention relates to a new and improved seeding-machine of that class which are provided with adjustable or expanding bars, to which the seed-boxes are attached, for the purpose of planting the seed in drills at a greater or less distance apart, as may be desired.

A represents the beam of the machine, the front part of which is supported by a driving-wheel, B, having a bevel-wheel, C, on its axle, into which wheel a bevel-pinion, D, gears, the latter being at the front end of a shaft, E, the front bearing, *a*, of which is attached to the lower end of a pendant, F. This pendant F has some degree of elasticity, and it is attached at its upper end to a bar, G, which is supported by uprights *b* at the front and rear ends of the beam A.

H H are handles, the lower ends of which are attached to the rear of beam A, their upper parts being braced by bars I I from the rear of the bar G.

J is a spring, attached to one side of the beam A, and bearing against the bearing *a* on pendant F, said spring having a tendency to keep the pinion D in gear with the wheel C.

K is a lever, which is attached to the rear uprights, *b*, by a bolt, *c*, passing through an oblong slot, *d*, in the lever, there being a lateral notch, *e*, at each end of said slot, to receive the bolt *c* and hold the lever K in a downward and upward position, the length of such adjustment or movement of the lever being limited or determined by the slot *d*. The lower end of the lever K is shod with a taper

iron rod, L, which extends underneath a rod, *f*, the latter projecting laterally from the rod L. (See Fig. 1.) By shoving down the lever K the bearing *a* will be forced outward and the pinion D thrown out of gear with the wheel C, the elasticity of the pendant F admitting of this result, and the spring J throwing the pinion in gear with the wheel as soon as the lever K is drawn upward.

The shaft E is connected at its rear end with a shaft, L', the bearing of which is in the rear upright, *b*, the joint *g*, which connects the shafts E L', being a universal one, to admit of the forcing out of the pinion D from the wheel C. On the rear end of the shaft L' there is a pinion, *h*, which gears into a bevel-wheel, *m*, on the lower end of a sleeve, *n*, placed loosely on a vertical fixed shaft, M, on the beam A, the sleeve *n* having two bevel-wheels, *o o'*, on its upper end, into the lower one, *o*, of which two pinions, *p p*, gear, which are on the front end of shafts N N. A pinion, *q*, gears into the upper wheel, *o'*, said pinion being on the front end of a shaft, O, which passes through a seed-box, P, over the rear part of the beam A.

The shafts N N have their bearings on bars Q Q, the rear parts of which form the bottoms of seed-boxes R R; and the bars Q Q rest on cleats *r*, which are attached to the upper surfaces of beams S S, which have plates *s s* projecting from the front ends, said plates being fitted loosely on the fixed shaft M, to admit of the seed-boxes R R being adjusted nearer to or farther from each other, the boxes R and beams S S being braced by bars T T, the front ends of which are secured by a pivot-bolt, *t*, to the rear end of the bar G.

The seed-distributing devices are attached to or placed on the shafts O N N, and the seed is discharged through openings in the sides of the boxes into cups *u*, which conduct the seed into tubes.

U is a lever, the fulcrum-pin of which passes through a cross-piece, *v*, attached to the handles H H. This lever U is connected to the beams S S by bars V V, one of the latter being attached to the lever above its fulcrum-pin, and the other attached below it, as shown in Fig. 2.

The seed-boxes R R are moved or adjusted



nearer to or farther from each other by actuating the lever U; and this lever may be retained at any desired point within the scope of its adjustment by having its upper end fitted in any of a series of notches in a bar, I\*, attached to the handles H H.

W represents seed-conveying tubes, attached, two to each beam S and one to the rear part of beam A. These tubes are secured in position by means of pins *w*, which pass through or into the upper parts of the tubes and by clamps *w\**, composed of rods, which pass longitudinally through blocks *a\**, secured to the under sides of the beams, and have hooks *b'* at their rear ends to fit around rods *c'*, which bear against the rear of the tubes, the front ends of the rods having screw-nuts *d'* upon them, by which the tubes may be drawn firmly in recesses in the rear of the blocks *a\**; and a series of holes may be made in the upper parts of the tubes for the pins *w* to pass through and admit of the tubes W being adjusted higher or lower, as desired.

The seed-distributing device may be composed of cylinders *d\**, provided with notches in their peripheries; or other suitable device may be used for the purpose.

The rear of the tubes W have wooden backs *f'* inserted in them, and the lower ends of said tubes are formed to serve as teeth or furrow-openers.

The seed-box P is bolted to bar I and cross-piece *v*, so that it will be independent of beam A and the machine, so that thereby allowed to

be shortened, to admit of being turned out of the rows of corn or similar crops without breaking down said crops and destroying the same.

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

1. The lever K, provided with a taper bar, L, at its lower end, in connection with the pendent elastic bar F, having the bearing *a* of the shaft E at its lower end, the arm or rod *f*, projecting from the inner side of the bearing *a*, and the spring J, all arranged substantially as shown, to admit of the bevel-pinion D being thrown in and out of gear with the wheel C.

2. The seed-box P, attached to bar I and cross-piece *v* and notched bar I\*, so as to be independent of beam A, for the manner specified.

3. The two bars T T, in connection with the beams S S and seed-boxes R R and bar G.

4. The seed-cups *u*, in connection with seed-boxes R R P, arranged in the manner described.

5. The attaching of the seed-conveying tubes W to the beams S S by means of the pins *w* and clamps *w\** passing through blocks *a\**, substantially as and for the purpose set forth.

HENRY THOMASON.

Witnesses:

OLIVER Y. STOCK,  
JARVIS CASE.