

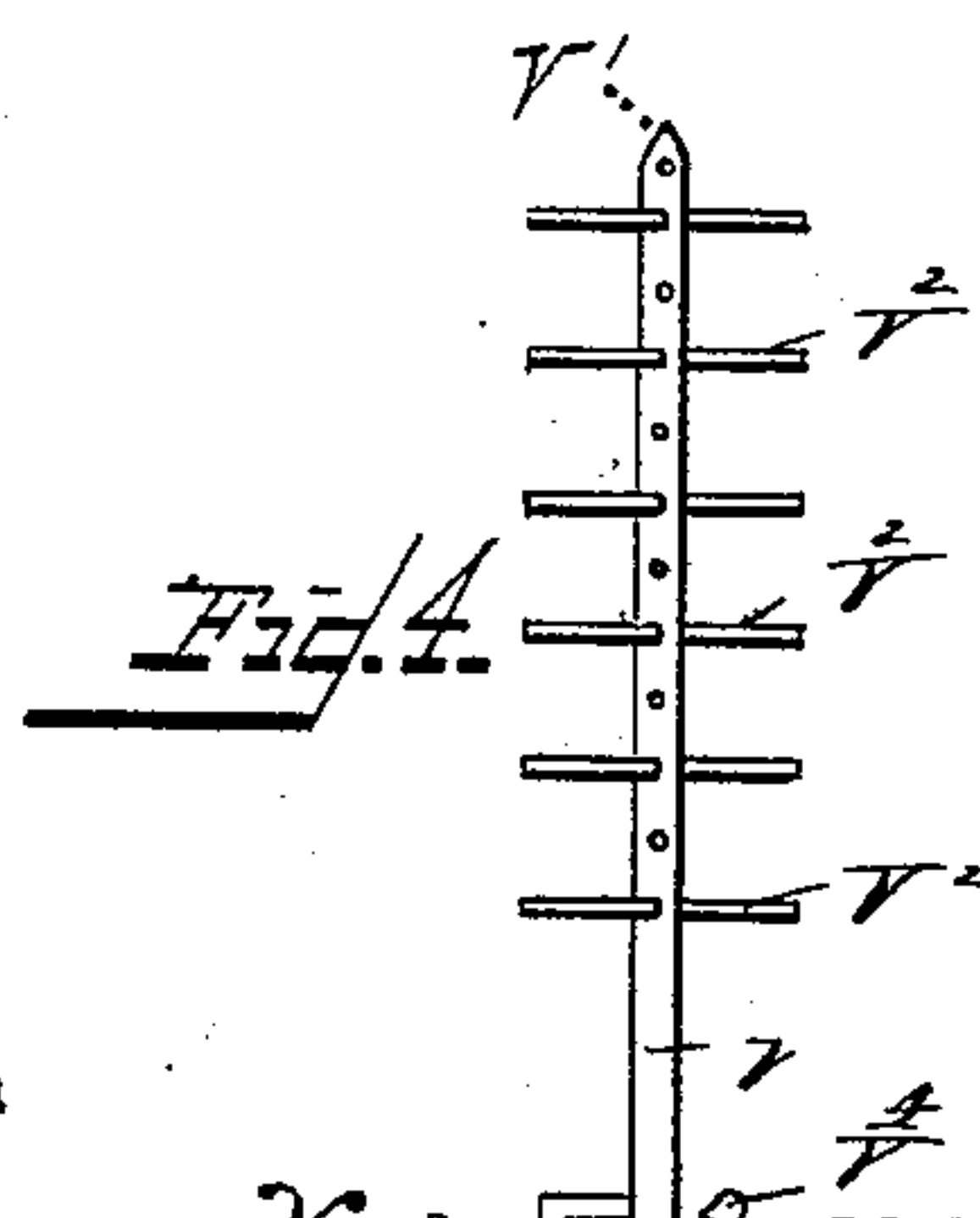
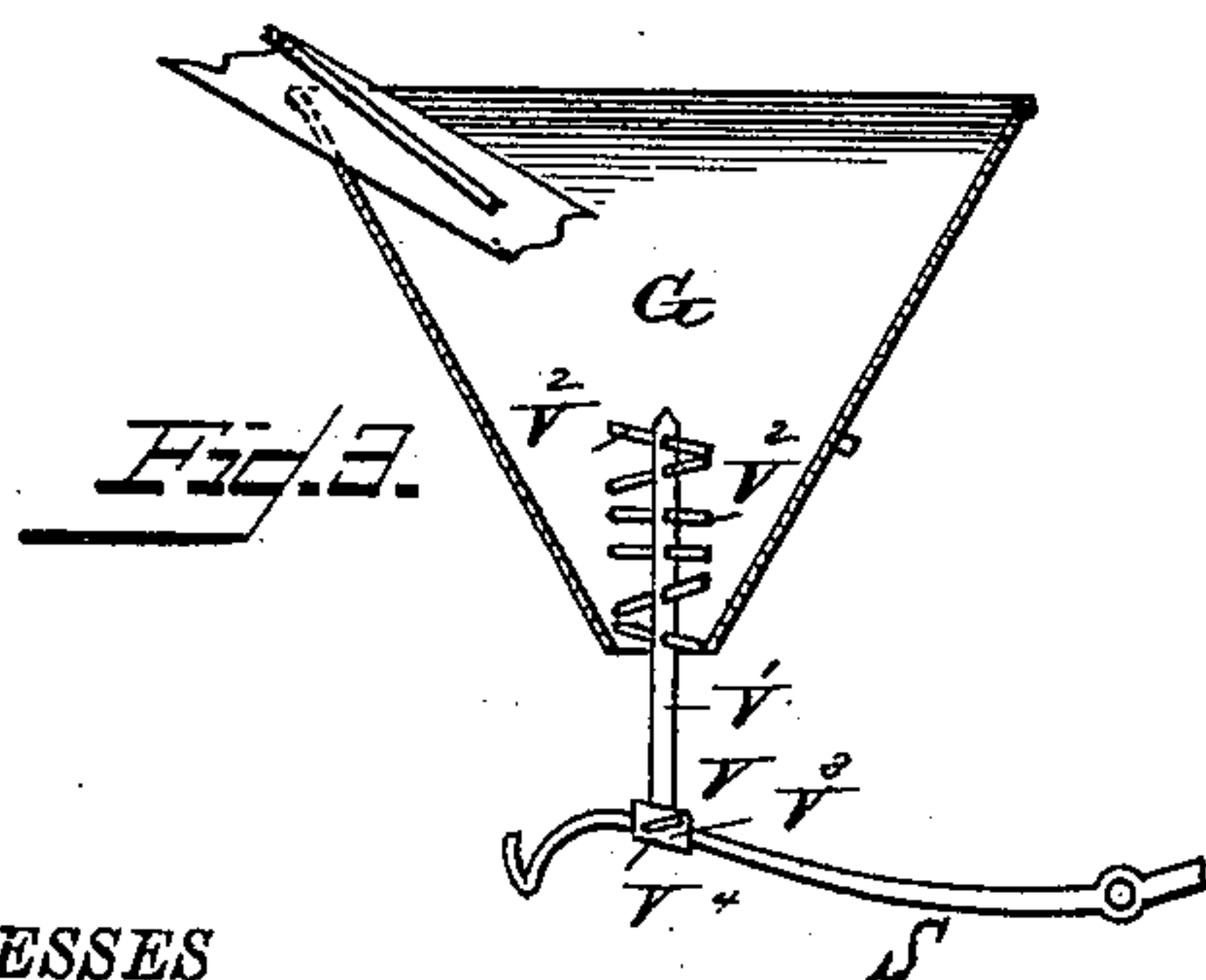
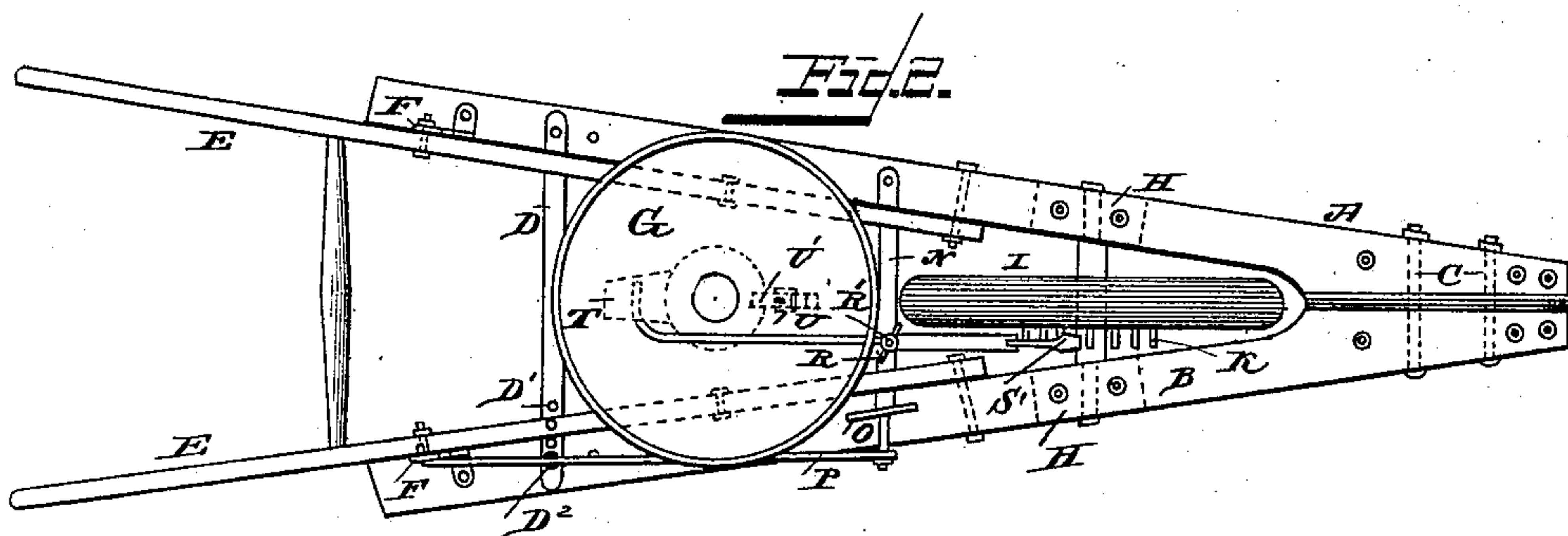
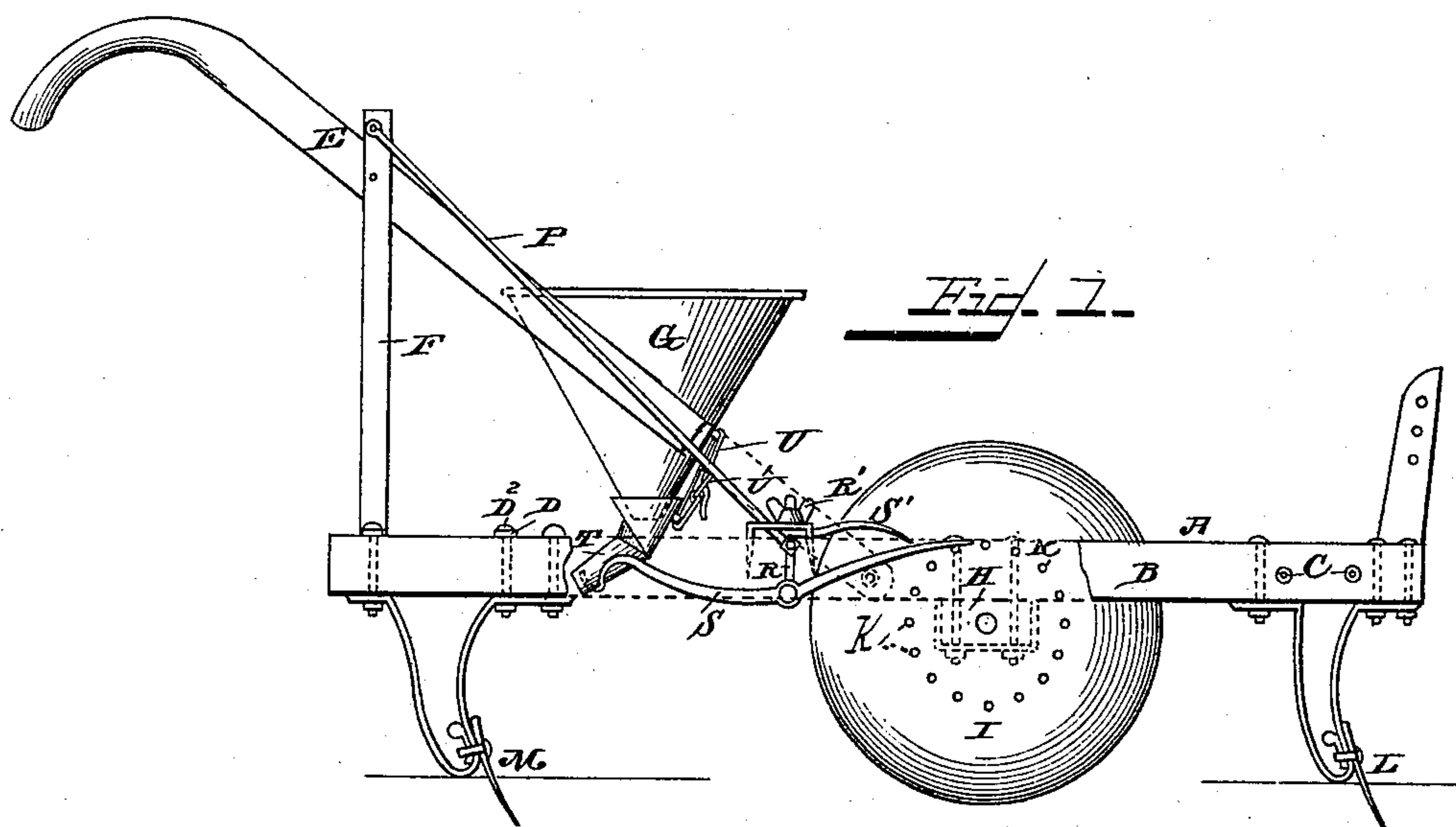
(No Model.)

J. B. SCARBOROUGH.

SEED DRILL AND FERTILIZER DISTRIBUTER.

No. 322,976.

Patented July 28, 1885.



WITNESSES

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UNITED STATES PATENT OFFICE.

JOHN BRYANT SCARBOROUGH, OF HAWKINSVILLE, GEORGIA.

SEED-DRILL AND FERTILIZER-DISTRIBUTER.

SPECIFICATION forming part of Letters Patent No. 322,976, dated July 28, 1885.

Application filed May 2, 1885. (No model.)

To all whom it may concern:

Be it known that I, JOHN B. SCARBOROUGH, a citizen of the United States, residing at Hawkinsville, in the county of Pulaski and State of Georgia, have invented a new and useful Improvement in Seed-Drills and Fertilizer-Distributers, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to an improvement in fertilizer-distributers and seed-planters; and it consists in the peculiar construction and combination of devices, that will be more fully set forth hereinafter, and particularly pointed out in the claim.

In the accompanying drawings, Figure 1 is a side elevation of a machine embodying my invention, a portion of one of the side beams of the frame being broken away. Fig. 2 is a top plan view of the same. Figs. 3 and 4 are detail views.

A represents a frame, which is composed of the side beams, B, that are connected at their front end by the bolts C, and near their rear ends by a cross-bar, D. This cross-bar is provided at one end with a series of perforations, D', through one of which a bolt, D², passes for securing the bar to one of the side beams. This construction adapts the frame to be adjusted laterally to any desired width.

E represents handles that are bolted to the side beams at their lower ends, and are supported near their rear ends by vertical standards F. Between the handles E is secured a hopper, G, which is funnel-shaped and has an opening in its lower end, which is arranged centrally between the beams B.

H represents journal-blocks, which are bolted to the under sides of the beams B near the front ends thereof, and in these blocks is mounted a driving and supporting wheel, I, which is provided on one side with a series of tappet-pins, K, which are made removable and adapted to be readily taken off or replaced. A furrow-opener, L, is secured to the front ends of the frame A, and near the rear ends of the beams D are secured seed-coverers M.

N represents a bar, which is fulcrumed at one end to one of the beams B, and has its opposite end secured in a keeper, O, that is fixed to the beam B at the opposite side of the frame. A rod, P, is pivoted on the free end of the bar

N, and has its rear end bent and passed through an opening made in the upper end of one of the standards F. A bolt, R, passes through the bar N, and is suspended therein by the thumb-nut R', which is screwed on the upper end of the bolt.

S represents a lever, which is fulcrumed centrally to the lower end of the bolt R, and has its front end bearing on the tappet-pins K. The rear end of the lever S is bent to form a support for a vibrating distributor, T, which is constructed as shown, and is suspended from the under side of the hopper by a strap, U. This strap is provided with a buckle, U', by means of which it may be lengthened or shortened, so as to adjust the distributor on the lower end of the hopper, and thus adapt the distributor to sow any desired quantity of seeds or fertilizer. The rotation of the wheel I as the machine is drawn along the ground imparts a vibrating motion to the lever S, owing to the engagement of said lever with the tappet-pins K, and the motion of the lever S is communicated to the distributor T, which causes said distributor to drop the seed or fertilizer into the furrow opened by the furrow-opener L, and the seeds, when planted, will be covered by the covering-shovels M. A spring, S', bears upon the front end of the lever S, and causes said lever to continue to bear upon the tappet-pins K.

By removing some of the tappet-pins the machine can be caused to drop the seeds or fertilizer in hills at any desired distance apart. By releasing the rod P from the standard F and drawing back upon said rod, the bar N will be moved rearwardly far enough to move the lever S out of contact with the tappet-pins, and thereby cause the machine to discontinue sowing the seeds or fertilizer.

As thus constructed, the machine is adapted either for use as a fertilizer-distributer or for sowing corn, beans, peas, wheat, rye, or oats, either in hills or in drills.

In order to adapt the machine for use in planting cotton-seeds, I provide an agitator, V, which is composed of a vertical bar, V', having the transverse rods V². The lower end of the rod V' is provided with an opening, V³, that is adapted to be passed over the rear end of the lever S, and has a set-screw, V⁴, for clamping the bar in position upon said lever, as

shown in Figs. 3 and 4. When this agitator is used, the distributor T is removed and the agitator extends up into the hopper, as shown.

Having thus described my invention, I
5 claim—

The combination of the frame, the wheel I, journaled therein and having the tappet-pins K, the hopper G, supported on the frame, the bar N, fulcrumed on the frame, the rod P, for
10 moving the bar N, bolt R, passing through the bar N and having the thumb-nut R', the lever S, fulcrumed to the lower end of the bolt R, the

distributor T, suspended below the hopper, and the strap U, for supporting the distributor, the outer end of the distributor being supported 15 upon the rear end of the lever S, substantially as described.

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

JOHN BRYANT SCARBOROUGH.

Witnesses:

THOMAS J. HOLDER,
J. W. LANCASTER.