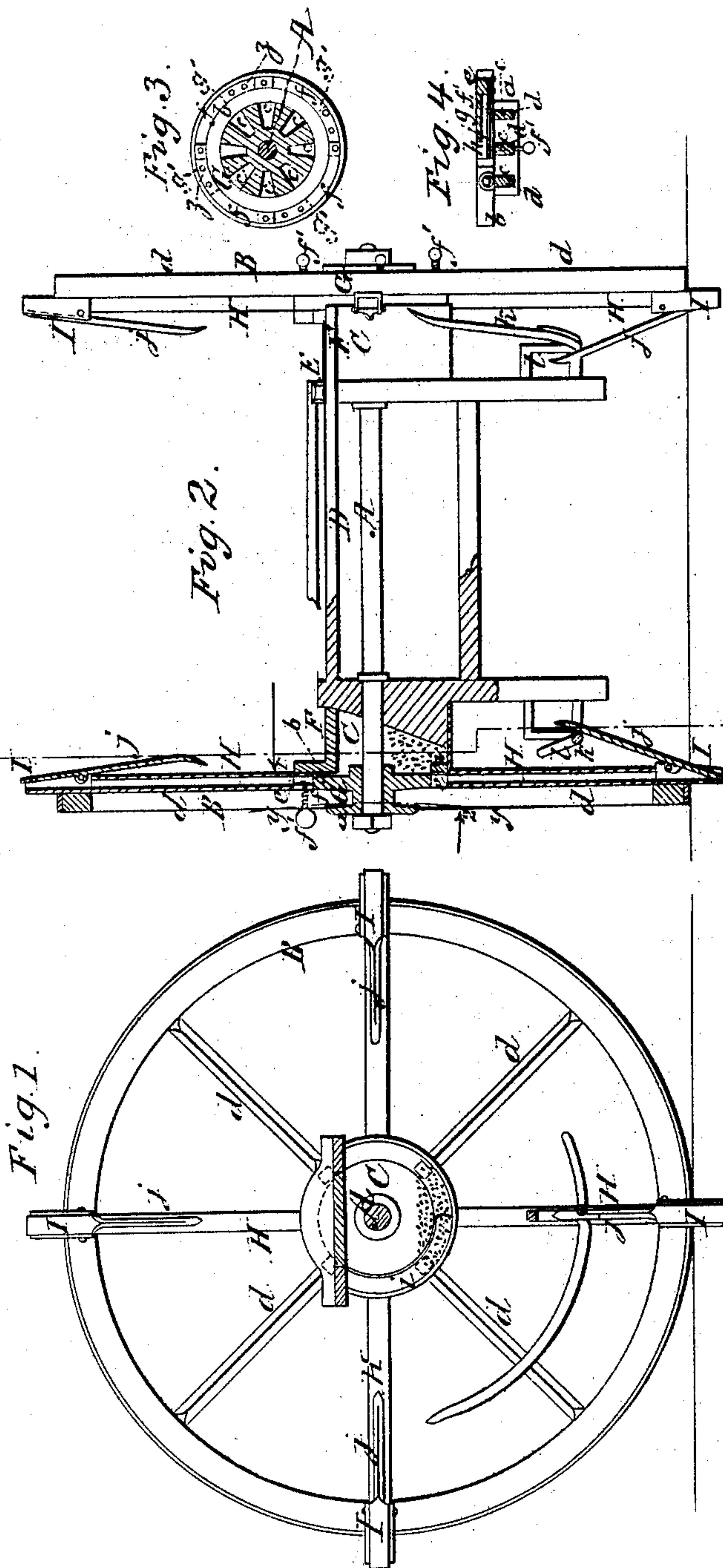


## Corn Planter.

Patented May 22, 1860.



N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

# UNITED STATES PATENT OFFICE.

B. T. STOWELL, OF QUINCY, ILLINOIS.

## IMPROVEMENT IN CORN-PLANTERS.

Specification forming part of Letters Patent No. 28,418, dated May 22, 1860.

*To all whom it may concern:*

Be it known that I, B. T. STOWELL, of Quincy, in the county of Adams and State of Illinois, have invented a new and Improved Corn-Planter; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a vertical section of my invention, taken in the line *x x*, Fig. 2, and looking in the direction of arrow 1. Fig. 2 is a front view of the same, one of the wheels and seed-boxes being bisected. Fig. 3 is a vertical section of one of the wheel-hubs, taken in the line *y y*, and looking in the direction indicated by arrow 2. Fig. 4 is also a section of the same, taken in the line *z z*, Fig. 3.

Similar letters of reference indicate corresponding parts in the several views.

This invention relates to an improvement in that class of corn-plinters which discharge or deliver the seed from the peripheries of the wheels.

The invention consists in a peculiar seed-distributing device constructed and arranged in such a manner as to obviate the chief objection to this class of machines—to wit, the unequal discharge of the seed and the derangement of the parts consequent upon a very slight wear of the same.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents an axle, on each end of which a wheel, B, is placed and permanently secured.

C C are two seed-boxes, the upper ends of which are attached to a horizontal board or platform, D, to which the thills E are secured. The seed-boxes are of cylindrical form, or may be described as being hollow cylinders with a top portion removed and provided with covers F.

G G represent the hubs of the wheels. These hubs not only serve as hubs, but they also form the chief portion of the seed-discharging device. Each hub is formed of two cylindrical parts, *a b*, of metal, and cast in one piece. The part *a* is smaller in diameter than the part *b*, and has radial recesses *c* formed in it to receive the spokes *d* of the wheels. (See Figs. 3 and 4.) The lower part, *b*, of the hub has at its outer part an annular recess, *e*, which is

converted into a box by having an outer side formed of a series of elastic plates, *f*, and the box is divided into a number of compartments, *g*, by partitions *g'*. (Shown by dotted lines in Fig. 3.) There is a plate *f* to each compartment of box *e*, and said plates may be moved in and out to vary the capacity of the compartments *g* by means of set-screws *f'*, which pass transversely through the spokes *d* of the wheels. (See Figs. 2 and 4.) At the inner side of the parts *b* of the hubs openings *h* are made, said openings communicating with the recesses or boxes *e*.

The seed-boxes C C are "flush" with the edges of the parts *b* of the hubs G, the two parts abutting snugly together. (See Fig. 2.) The sides of the seed-boxes are of metal plate. Within each seed-box C C there is placed a curved strip, *i*. These strips are attached to the front parts of the seed-boxes, and at their outer edges abutting against the box *e*, and extending around about half-way of the seed-boxes. (See Fig. 1.) To every alternate spoke *d* a tube, H, is attached, said tubes communicating with the compartments *g*. (See Fig. 2.) To the outer end of each tube H a valve, I, is placed, said valves having each a rod or arm, *j*, attached, said rods or arms being actuated at the proper time by curved rods *k l*, attached to pendants *m m*.

As the machine is drawn along the cells or compartments *g* fill with seed through the openings *h*, and as the openings *h* pass behind the strips *i* the seed passes from the compartments into the tubes H, the strips *i* serving as cut-offs and preventing the seed from falling directly from the seed-boxes through the tubes H. The valves I are kept closed by the curved rods *k* bearing against the arms *j* until they reach a point directly under the hubs, when the rods *l* open the valves and allow the seed to escape.

By having the hubs G of metal, cast in one piece and arranged as shown, a double seed-distributing device is obtained. There are no parts that can get out of repair. The seed cells or chambers may be made of varying capacity, according to the amount of seed to be distributed on a given area or space, by adjusting the screws *f'*.

I do not claim the valves I, placed at the ends of seed-tubes H, attached to the spokes *d* of the wheels, and actuated as shown. Neither



do I claim, broadly, discharging the seed from the peripheries of the wheels by the rotation of the same; but,

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

The arrangement and combination, with a hub, G, composed of one piece, of the radial

recesses *c* to receive the spokes, the annular recess *e* to receive the seeds, and the adjustable plates *f*, as and for the purposes herein shown and described.

B. T. STOWELL.

Witnesses:

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