

UNITED STATES PATENT OFFICE.

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CORN-PLANTER.

SPECIFICATION forming part of Letters Patent No. 229,018, dated June 22, 1880.

Application filed May 8, 1880. (No model.)

To all whom it may concern:

Be it known that we, GEORGE CASSIUS TAYLOR, JESSE V. WHITE, and MILAM R. MORRIS, citizens of the United States, residing at 5
Glenville, in the county of Adair and State of Kentucky, have invented certain new and useful Improvements in Corn-Planters; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this 15
specification.

The object of our invention is to improve that class of corn and seed planters which deliver the seed by means of a cylindrical dropper operated through the medium of a train 20
of gearing driven by the bearing-wheel; and our invention consists in the combinations and arrangements of parts hereinafter described, and specifically pointed out in the claims.

In the accompanying drawings, forming part 25
of this specification, Figure 1 is a side view of a planter embodying our improvements. Fig. 2 is a plan view, and Fig. 3 is a vertical longitudinal section, thereof.

Similar letters of reference denote the same 30
parts in all the figures.

A and B are beams forming a V-shaped frame of a cultivator, connected together at the front in the usual manner, the beam B being carried farther back than the beam A. The 35
rear ends of each of these beams A and B are curved downward and forward, and each is provided with a shovel-blade, the one *a* on the beam A entering the ground in front of the delivery-spout to open a furrow to receive the 40
seed, and the other, *b*, on the beam B, (being in the rear and to one side of the spout,) serving to cover up the seed.

Passed through the beams A and B, at the upper end of the curved portion of beam A, 45
is a shaft, C, upon which, between the beams, are mounted the bearing-wheel D and a gear-wheel, *d*, while upon the ends of said shaft, outside the frame-pieces, are mounted the handles F and G.

The gear-wheel *d* on shaft C meshes with 50
the gear-wheel *e*, mounted on a shaft, H, which also carries the delivery-cylinder E, said delivery-cylinder forming the bottom of the hopper J, and being provided with any number of 55
pockets K, adjustable in depth by means of screws *k*.

Upon each side of the hopper J are ears *j*, through which passes a brace-rod, L, formed with a hook at one end to embrace one of the 60
handles, and at the other end provided with a clamp, M, to embrace the opposite handle.

The brace-rod L may be screw-threaded at 65
l to receive nuts *l'*, to adjust the hopper laterally and hold it in position when adjusted and to additionally brace the handles. The hopper is also provided on one side with a 70
flange, (formed by the addition of the piece *f*), to provide a wider bearing on the curved portion of beam A. There is also attached on the same side of the hopper a cleat, *g*, having 75
a groove in its face, in which the handle F is placed, the effect being to prevent movement forward or backward of the hopper. The hopper is also provided with a delivery-spout, M', the lower end of which is attached to the lower 80
end of the curved portion of beam A by means of a bolt, N, having nut *n*, which also serves at the same time to fasten the shovel-blade *a* to the frame-piece. The handles are properly 85
braced to the beams A and B for use without the planting mechanism.

By this construction the entire planting mechanism may be taken from and placed upon the cultivator by simply loosening the 85
clamp on the brace-rod L and the bolt and nut N *n*.

Having thus fully described our invention, what we claim, and desire to secure by Letters Patent, is—

1. In a corn-planter, the hopper J, having 90
flanges *f*, cleats *g*, and curved spout M', in combination with the handles F G, brace-rod L, provided with a hook at one end and clamp M at the other, and the bolt and nut N *n*, substantially as set forth. 95

2. In combination with the hopper J, having flanges *f* and cleat *g*, the brace-rod L, having hook and clamp, the gears *d e*, and the culti-

vator-frame, whereby the planting mechanism may be removed from or placed upon a cultivator at will, as set forth.

3. The combination, in a corn-planter, of a
5 seed-hopper and dropping mechanism remov-
ably attached to the handles in the manner
described, a curved delivery-spout conform-
ing to the shape of the beams, a shovel-blade,
and a bolt and nut, N n, to secure both the

shovel-blade and curved spout to the beam, as 10
set forth.

In testimony whereof we affix our signa-
tures in presence of two witnesses.

GEO. C. TAYLOR.

JESSE V. WHITE.

MILAM R. MORRIS.

Witnesses:

JAS. W. ATKINS,

C. R. PAGE.