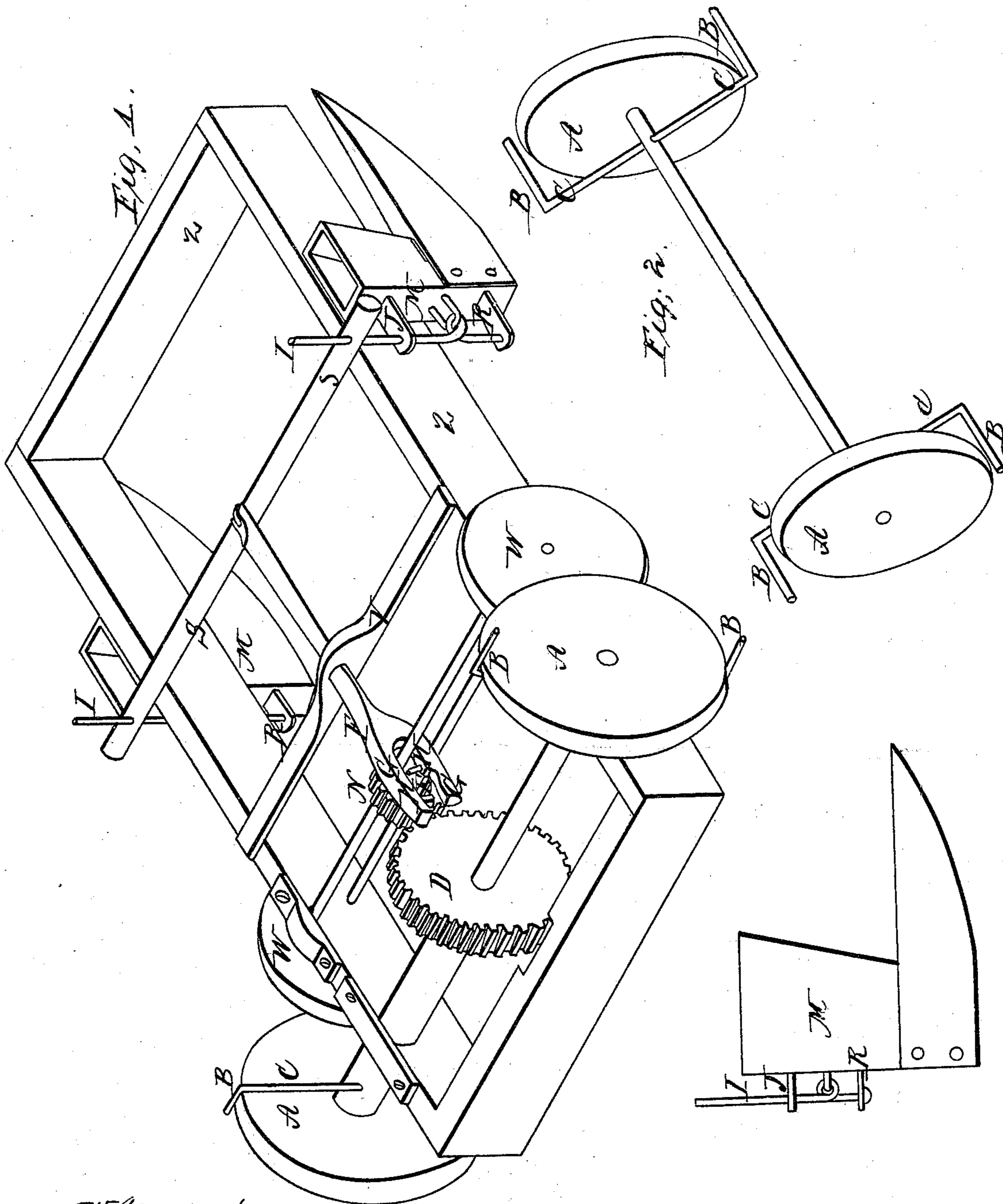


N. M. Powers.

Corn Planter.

N^o 88,508.

Patented Mar. 30, 1869.



Witnesses,

Frank L. Fries

Leland S. Fries,

Inventor

Nathan M. Powers



NATHAN M. POWERS, OF KIRKSVILLE, MISSOURI.

Letters Patent No. 88,508, dated March 30, 1869.

IMPROVEMENT IN CORN-PLANTERS.

The Schedule referred to in these Letters Patent and making part of the same.

Be it known that I, NATHAN M. POWERS, of Kirksville, Adair county, State of Missouri, have invented new and useful Improvements upon Corn-Planters; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view of the corn-planter, complete;

Figure 2, a perspective view of the marking-wheels; and

Figure 3 represents the corn-dropper and drill.

The nature of my invention consists in a corn-planter, constructed so as to drop the corn in longitudinal rows, equidistant from each other, and mark upon the ground, at the same time, transverse rows of the same distance, whereby is avoided the labor of previous marking.

In the accompanying drawings—

Z represents the frame of the machine.

B C, the markers, which rest on the face of the marking-wheels, A A.

D is a cog-wheel, placed upon the shaft of the wheels A A.

N is a smaller cog-wheel, working in the cog-wheel D, and is provided with the spur E on one of its sides.

This spur operates the shaft F, by means of the spurs H H, in the forked end of the same.

The other end of the shaft F is attached to the dropping-bar, S.

V is a bearing, to keep the bar S in position, and W W are wheels to assist the locomotion of the planter.

The operation of the machine is as follows:

On moving the machine, the marking-wheels A A revolve, causing the markers B B to mark the ground, at certain distances, for the transverse rows.

By the revolution of the wheels A A, the cog-wheel D is revolved on the cog-wheel N, causing its spur E to operate alternately on the spurs H H of the shaft F, by means of which the shaft F is moved backward and forward. This movement of the shaft F causes a similar movement of the dropper-bar S, to which it is attached, and the movement of the bar S operates the valves J J and R R back and forth in the drills M M, thereby dropping the corn in certain quantities, and at equal distances.

What I claim as my invention, and desire to secure by Letters Patent, is—

The marking-wheels A A, markers B B, shaft F, cog-wheels D and N, dropper-bar S, rods I I, valves J J and R R, and drills M M, when combined, arranged, and operating substantially in the manner and for the purposes herein shown and described.

NATHAN M. POWERS.

Witnesses:

FRANK L. FERRIS,
LUCINDA D. FERRIS.