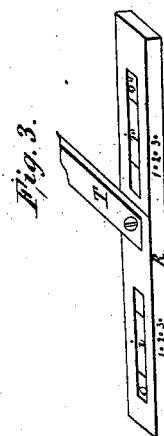
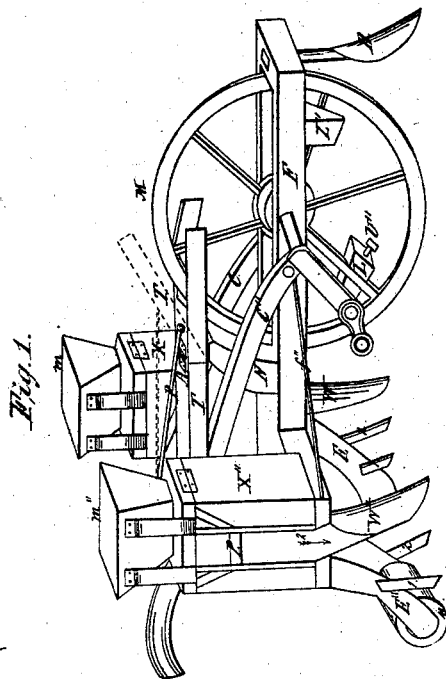
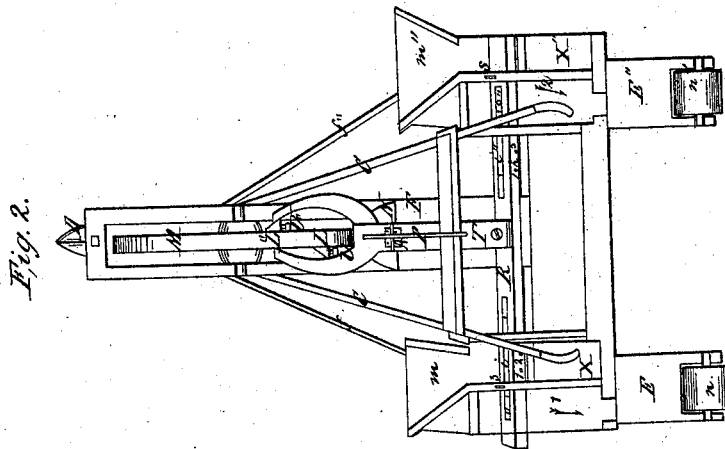


W. H. HUNTER.
Seed Planter.

No. 47,728.

Patented May 16, 1865.



Witnesses:

L. F. Hartman
A. F. Davis.

Inventor:

W. H. Hunter

UNITED STATES PATENT OFFICE.

WILLIAM H. HUNTER, OF DOOR, ILLINOIS.

IMPROVEMENT IN CORN-PLANTERS.

Specification forming part of Letters Patent No. 47,728, dated May 16, 1865.

To all whom it may concern:

Be it known that I, W. H. HUNTER, of the town of Door, in the county of McHenry and State of Illinois, have invented a new and useful Improvement in 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 accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of the machine. Fig. 2 is an end view of the same. Fig. 3 is a view showing the slide.

Similar letters of reference, where they occur in the separate figures, denote like parts of the machine in each of the drawings.

My invention consists, first, in providing the machine with an adjustable slide for dropping the corn; second, in a jointed or hinged lever for moving the slide.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same with reference to the drawings.

F is the main frame of the machine, which may be of any suitable form of construction.

m' m'' are the hoppers to receive the grain. Beneath these hoppers are boxes *X' X''*, which extend downward and are fastened to the main frame. These boxes are formed with two perpendicular chambers, 1 and 2, standing in direction of the length, as shown by Fig. 2.

R is an adjustable slide, which extends transversely from side to side and passes through boxes *X' X''* just beneath where the same receives the hoppers. This slide is provided at its ends with slots *o o*. In these slots are other slides, *i' i''*, which are capable of being adjusted to any suitable distance to admit of any given number of grains passing through, and held in position by means of pins passing through mortises 1, 2, and 3, as shown in Fig. 3.

T' is a vibrating lever, which is attached by means of a joint-bolt to the center of slide R, and extends forward to a wheel, M, and has a slot of a circular form at the end therein. It has also a hinge or joint, A, at or near the middle, which admits of the forward end of the lever being raised, thus throwing the same above the wheel, as shown in Fig. 1.

N is a standard of a slightly-curved form, which is attached to the main frame and ex-

tends upward to support the lever at the hinge or joint.

P is a rod, which is attached to the lever directly forward of the hinge or joint, and extends back and is connected to a bar running across from handles C to C'. Wheel M has blocks or cams *L' L''*—two or more in number—attached to different spokes, which pass through the slot in the end of the lever T. These blocks or cams are held at suitable distance from the rim of the wheel by means of set-screws V V, these set-screws passing through the end of the block or cam and connecting with the spokes of the wheel. These contrivances give the necessary motion to all of the moving parts of the machine under certain restrictions and limitations, as will be hereinafter explained.

W' W'' are shovels, which may be of any known form of construction, allowing the same to be hollow, and are attached to the main frame directly underneath chambers 1 1'' of boxes *X' X''*. Just back of these shovels are frames *E' E''*, which are hinged at the upper end to the main frame and have at lower end a series of vertical teeth, 1' and 2, 1'' and 2'', and a rotating roller, *n' n''*.

D is a shovel or share, which is attached to the main frame just forward of the wheel, and extending down to the ground, as shown in Fig. 1, for the purpose of removing sods or other obstructions, which may be in front of the wheel.

The operation of the machine is as follows: As the same is propelled forward it causes wheel M to revolve on its axis, thus throwing the blocks or cams *L' L''* in contact with lever T, which connects with slide R, causing the same to have a lateral vibrating movement through boxes *X' X''*. The grain to be planted, being in hoppers *m' m''*, which communicate with chambers 2' 2'', fills slots *o' o''* in slide R, and as the same passes through into chambers 1 1'' the grain leaves the same and passes down through said chambers and shovels W' W'' into the furrow in the ground formed by said shovels, and is immediately covered by means of two direct furrows caused by vertical teeth 1 2 and 1'' 2'', and the ground is again compacted and brought to a level surface by rotating rollers *n' n''*.

I have said that lever T was provided with a hinge or joint at or near the middle, with a rod, P, extending back therefrom to a bar running across from handle C to C'', thus admitting of the forward end of the lever being raised above the wheel. The object of this is that the machine may be removed from place to place without operating the moving parts.

I have also said that wheel M was provided with blocks or cams—two or more in number—attached to different spokes in the wheel. The object of this is where there are but two, as shown in the drawings, the lever vibrates but once at one revolution of the same, thus dropping the cam at a given distance, or, in other words, in rows each way; but where there are more than two, or where they are attached to each spoke of the wheel, it will drop the corn in what is called "drills," which is preferred by many.

Having fully described the nature and object of my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. Adjustable slide R, constructed, arranged, and operated substantially in the manner and for the purpose described.

2. Jointed or hinged lever T, rod P, and vertical standard N, constructed and operated substantially in the manner and for the purpose set forth.

3. The blocks or cams L L, attached to the spokes of the wheels by set-screws when said cams are made adjustable and removable, in combination with the hinged lever T, rod P, and vertical standard N, as specified.

W. H. HUNTER.

Witnesses:

J. G. HARTMAN,
A. F. DAVIS.