

I. Graham, Com. Plotter.

No. 113,422.

Patented Apr. 4, 1871.

Fig 1

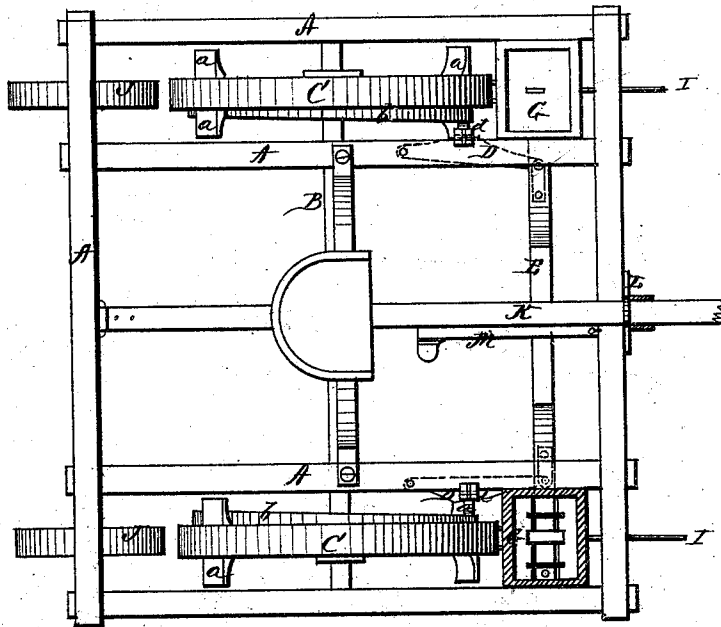


Fig 2

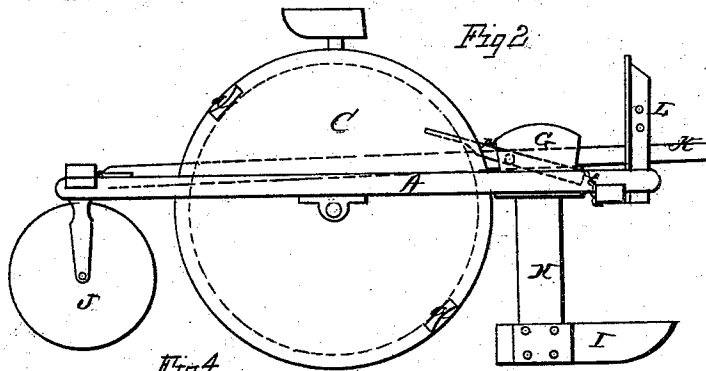


Fig 4

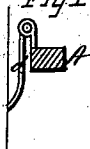
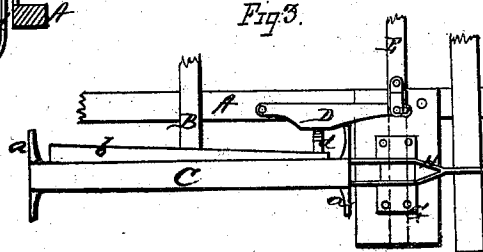


Fig 5



Witnesses.
A. Graham
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Inventor.
I. Graham
per
Alexander Murray
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United States Patent Office.

LEWIS GRAHAM, OF PLYMOUTH, ILLINOIS.

Letters Patent No. 113,422, dated April 4, 1871.

IMPROVEMENT IN CORN-PLANTERS.

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

To all whom it may concern:

Be it known that I, LEWIS GRAHAM, of Plymouth, in the county of Hancock and in the State of Illinois, have invented certain new and useful Improvements in Corn-Planters; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of a "corn-planter," as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a plan view, and

Figure 2, a side elevation of my machine.

Figure 3 is a bottom view showing the mode of operating the feed-slide.

Figure 4 is a side view of a portion of this mechanism.

A represents the frame of my machine, through which, at a suitable point, passes the axle B.

On this axle are placed two wheels, C C, in the outer circumference of which are inserted cross-pieces *a a*, extending on both sides of the wheel, and placed a regular distance apart, forming markers to show the hills.

On the inner side of each wheel C are placed cams *b b*, which operate, in succession, a lever, *d*, hinged on the frame A, as shown in fig. 4.

This lever bears against another lever, D, the rear end of which is pivoted on the under side of the frame, while the front end is pivoted to the feed-slide E, said slide passing through the hoppers G G and feed the corn in the usual manner to the conductors H and shoes I, into the ground.

Under the rear portion of the frame A are placed two caster-wheels, J J, to turn the machine on.

The tongue K is pivoted or hinged in the rear end

of the frame, and passes through a slotted standard, L, in front, to prevent any zigzag motion, and also to regulate the depth by means of a pin through said standard.

M is a foot-lever pivoted on the side of the tongue, and connected by a chain, *e*, with the front end of the frame.

With my machine it requires no marking off and saves the expense of one hand while planting.

To operate the machine we will suppose the tongue is brought up to the top of the standard L; then, by moving, it will operate the feed-bar.

In turning, press the foot-lever holding the end of the tongue up; that raises the machine off of the main wheels C C and throws the weight on the casters J J.

After turning bring the runners or shoes I I in proper position, and turn the wheels C C so that it is just ready to drop; relax the weight, and it is ready to go ahead.

If, by reason of rough ground or accident, it should get out of line, raise the planter as in turning and turn the wheels backward or forward, as the case may require, and let down again.

Having thus fully described my invention,

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

1. The combination of the hinged lever *d* and pivoted lever D and cams *b b* on the wheels C C, to operate the feed-slide, substantially as herein set forth.

2. The arrangement of the frame A with wheels C C, having cams *b b* and markers *a a*, wheels J J, levers *d* and D, feed-slide E, hoppers G G, conductors H, shoes I, and the hinged tongue K, all constructed to operate as and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 4th day of February, 1871.

LEWIS GRAHAM. [L. S.]

Witnesses:

EDWARD R. METCALF,
CYRUS ELLIOTT.