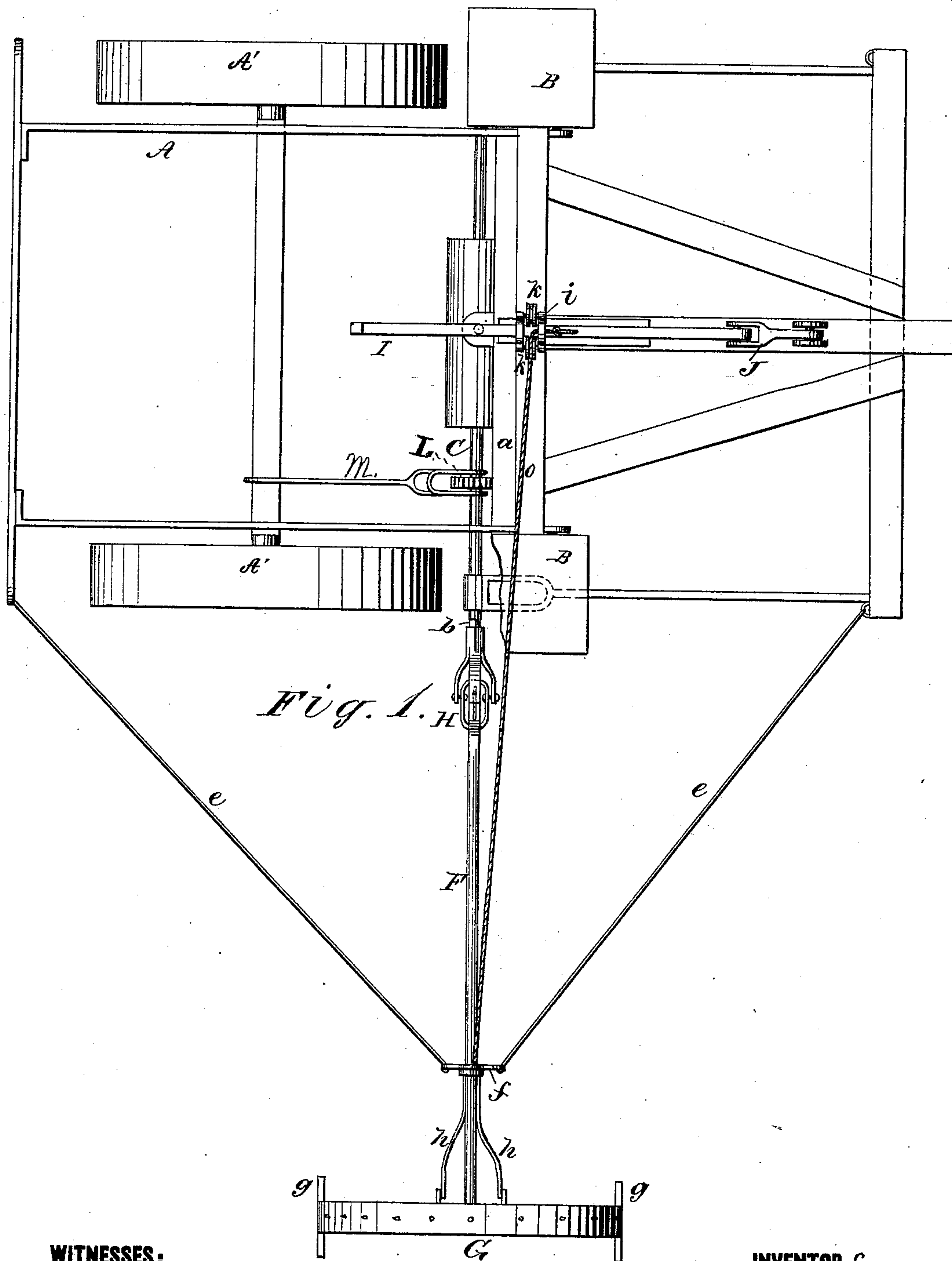


O. B. SEAMANS, V. A. BRYANT & H. DEVLING  
Corn Planter.

No. 201,454.

Patented March 19, 1878.



WITNESSES:

*H. Rydquist*  
*J. H. Scarborough.*

INVENTORS

*O. B. Seamans.*  
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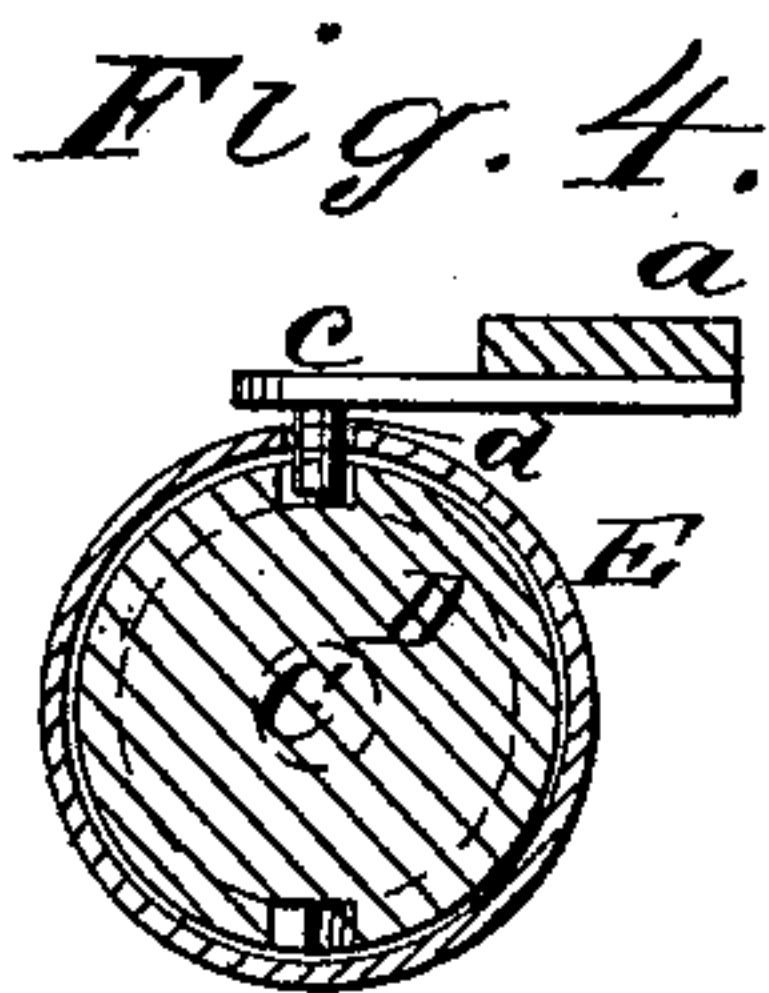
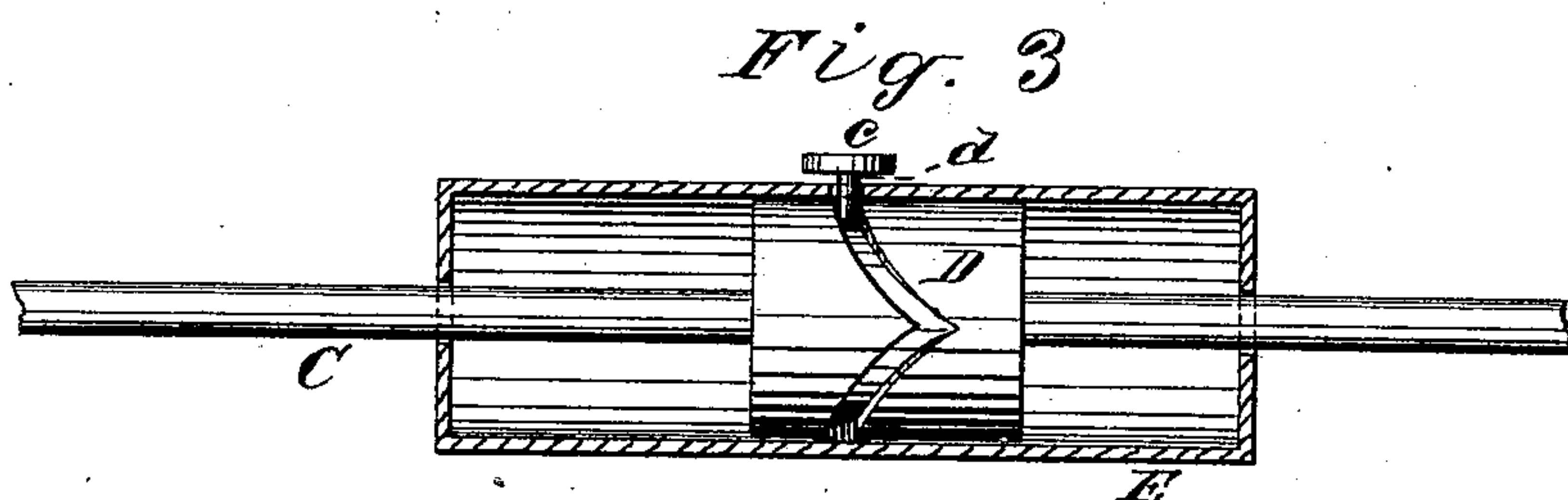
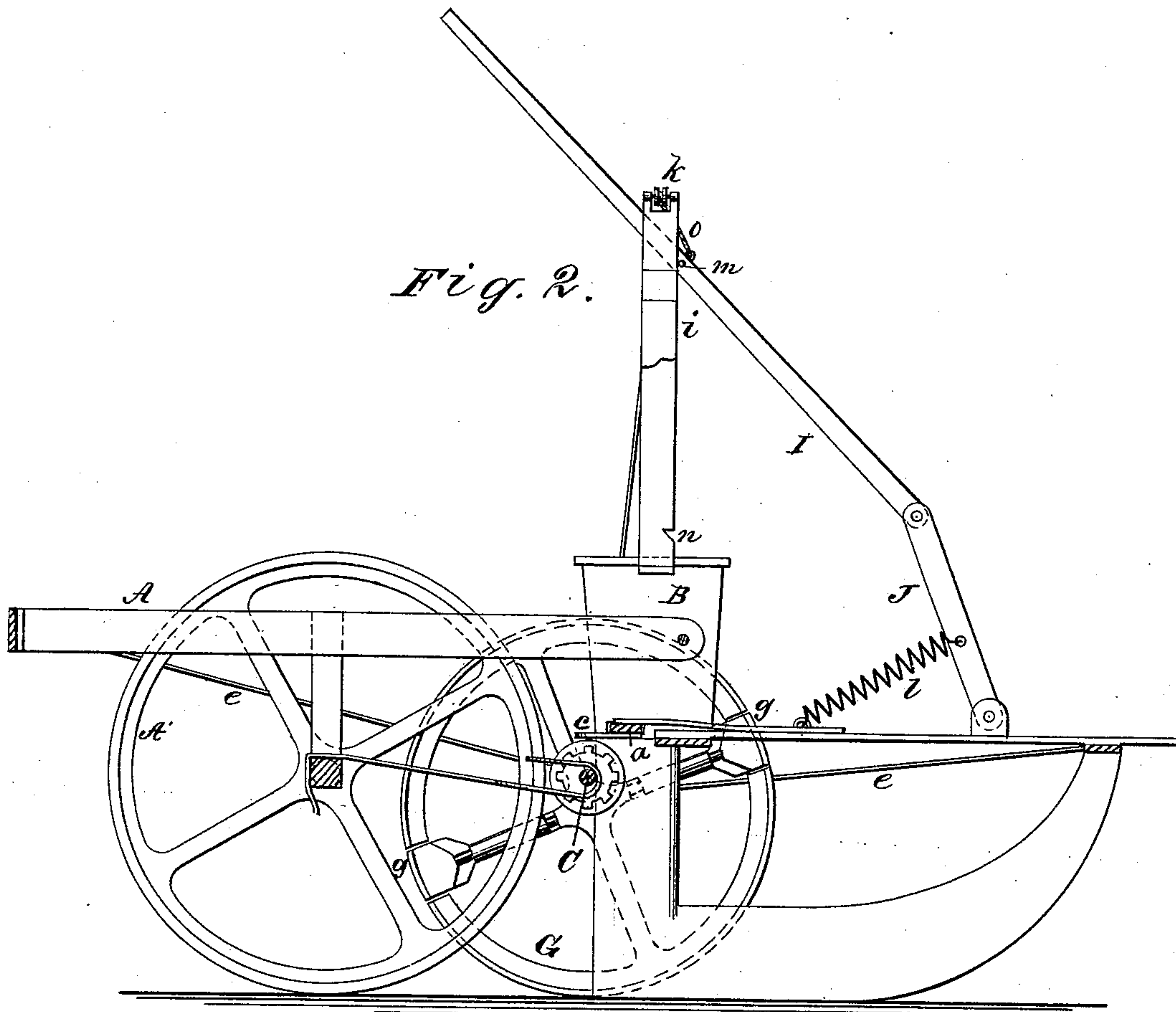
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# UNITED STATES PATENT OFFICE.

OSCAR B. SEAMANS, VELORUS A. BRYANT, AND HUGH DEVLING, OF  
COALVILLE, IOWA.

## IMPROVEMENT IN CORN-PLANTERS.

Specification forming part of Letters Patent No. 201,454, dated March 19, 1878; application filed  
November 28, 1877.

*To all whom it may concern:*

Be it known that we, OSCAR B. SEAMANS, VELORUS A. BRYANT, and HUGH DEVLING, of Coalville, in the county of Webster and State of Iowa, have invented a new and Improved Corn-Planter, of which the following is a specification:

Figure 1 is a plan view of a corn-planter containing our improvements. Fig. 2 is a side elevation in section. Figs. 3 and 4 are detail views of the cam for operating the seed-drop-valves.

Similar letters of reference indicate corresponding parts.

The object of our invention is to provide mechanism for operating the seed-valves of a corn-planter, and for marking the rows.

Referring to the drawing, A is the frame of the corn-planter, which is supported by wheels A', and carries two seed-boxes, B, of the usual description, through which the seed-valve bar *a* slides. A shaft, C, having squared ends *b*, is journaled in the frame A at the back of the seed-boxes B, and parallel with the axle of the supporting-wheels A'. Upon this shaft a cam, D, having a zigzag circumferential groove, is secured, and a cylindrical cover, E, is placed on the cam to protect it from dust and injury. This cover is closed at both ends, and is of sufficient length to permit it to slide through a distance equal to the stroke of the cam.

An arm, *c*, is attached to the seed-valve bar *a*, and is provided with a pin, *d*, that projects through an aperture in the cam-casing into the groove in the cam.

A shaft, F, having at one end a wheel, G, and at the other a universal joint, H, is connected with the shaft C by slipping a square socket formed on one of the halves of the universal joint H upon one of the squared ends of the shaft C. The shaft F is prevented from end and lateral motion by the braces *e*, which are jointed to the front and rear of the frame A, and are attached to a plate, *f*, which is swiveled on the shaft F.

The periphery of the wheel G is provided with spikes to insure its rotation by contact

with the ground, and in it, at points diametrically opposite, there are two movable portions, *g*, that are secured to sliding sleeves placed on the spokes of the wheel, and pressed outward by springs *h*, secured to the shaft F.

A slotted post, *i*, is secured to the front of the frame A, in the upper end of which two pulleys, *k*, are journaled, one on each side of the slot. A lever, I, passes through the slot in the post, and is jointed to the upper end of a lever, J, which is pivoted to the tongue, and is drawn backward by a spring, *l*.

A pin, *m*, passes through the lever I, and rests against the face of the post *i*, in which a notch, *n*, is formed for receiving the pin *m* in the lever I. A rope or cord, *o*, is attached to the lever I, and extends upward over one of the pulleys *k*, and is attached to the plate *f*.

A toothed wheel, L, is secured to the shaft C for receiving a lever, M, by which the wheel G is turned when it is required to make it register with marks previously made.

As the corn-planter is propelled forward the wheel G revolves and carries the cam D, which operates the seed-valves. When it is desired to stop the action of the seed-valves, the wheel G is raised by depressing lever I.

When the machine is moved from place to place, the wheel G is raised by depressing the lever I, and is supported by permitting the pin *m* to drop into the notch *n*. When the planter is turned at the end of the field, the wheel G is disconnected from one end of the shaft and connected with the other end.

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

The combination of the lever having the pin *m*, lever J, spring *l*, post *i*, having pulleys *k*, and the rope *o*, for raising the wheel G, substantially as herein shown and described.

OSCAR B. SEAMANS.  
VELORUS A. BRYANT.  
HUGH DEVLING.

Witnesses:

FRANK LANDON,  
A. M. PAGE.