(No Model.)

J. W. ROZAR.

FERTILIZER DISTRIBUTER.

No. 452,240. Patented May 12, 1891.

Fig. 1.

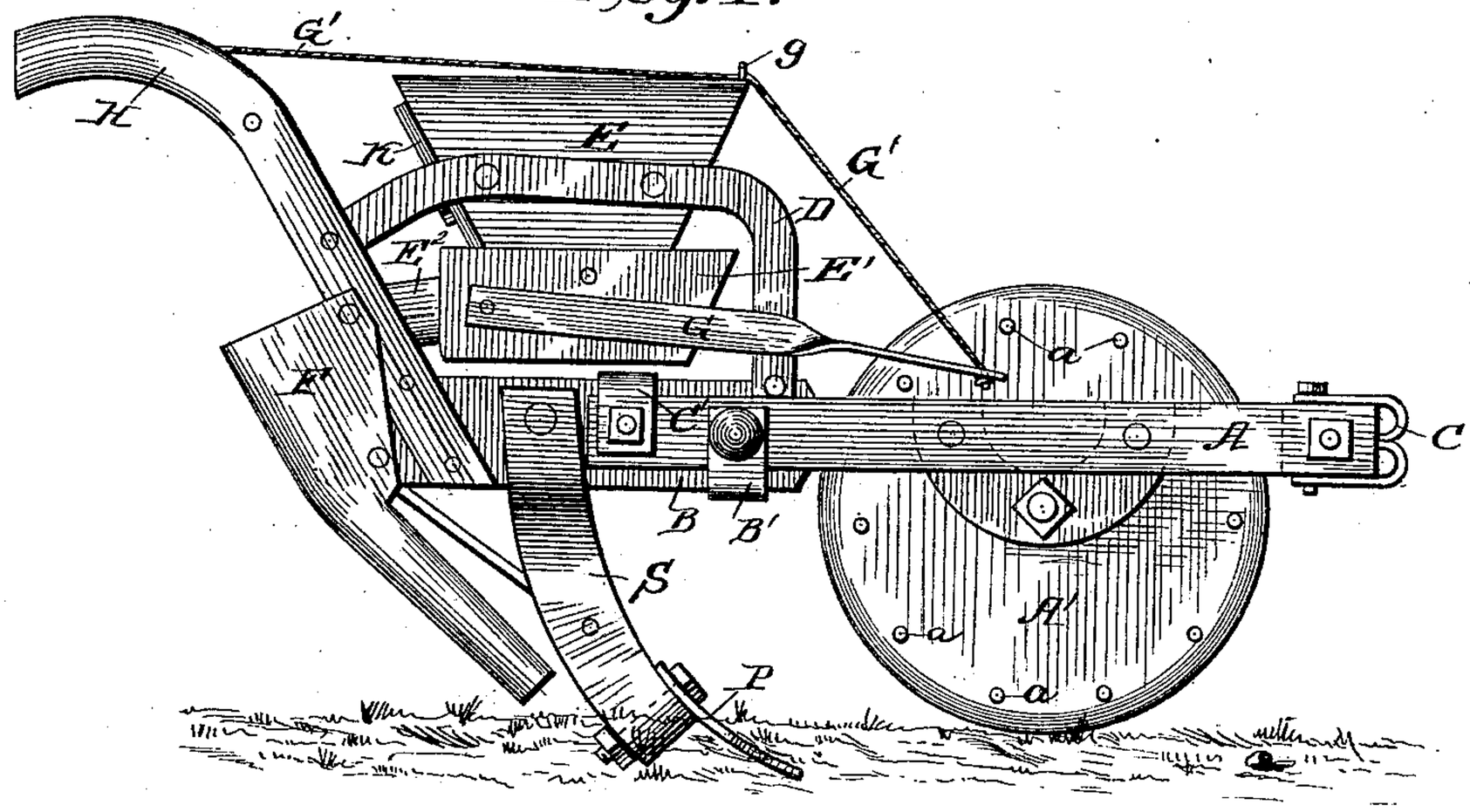
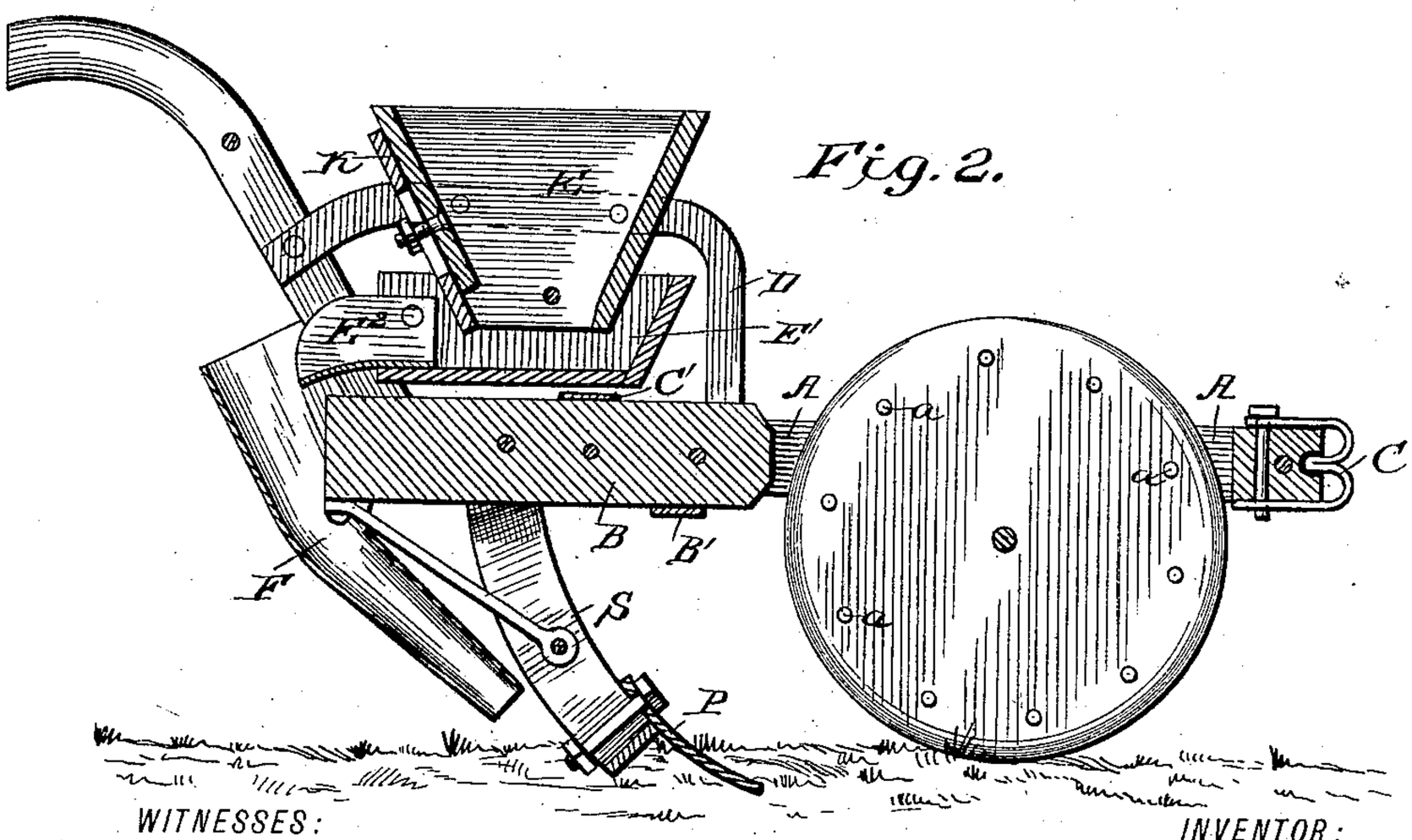


Fig. 2.



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JAMES W. ROZAR, OF RAWLINS, GEORGIA.

FERTILIZER-DISTRIBUTER.

SPECIFICATION forming part of Letters Patent No. 452,240, dated May 12, 1891.

Application filed July 22, 1890. Serial No. 359,574. (No model.)

To all whom it may concern:

Be it known that I, JAMES W. ROZAR, of Rawlins, in the county of Dodge and State of Georgia, have invented a new and useful Improvement in Fertilizer-Distributers, of which the following is a specification.

My invention relates, generally, to fertilizer-distributers, and particularly to that class thereof known as "walking-distributers," and also to that class known as "vibrating hoppers," in which the material to be distributed is fed by the vibration of the hopper.

The object of my invention is to provide a machine of the character described that shall be equally well adapted for fertilizing and planting, and also one in which the operation of fertilizing can be done simultaneously with the plowing.

With these objects in view my invention consists in the peculiar construction of the various parts and the novel manner in which they are combined, as will be more fully hereinafter referred to and claimed.

In the drawings forming a part of this specification, and in which similar letters of reference indicate the same parts, Figure 1 is a side view of my improved machine, and Fig. 2 is a central vertical longitudinal section of the same.

In carrying out my invention I employ a beam B, standard S, secured to the same, an opening-plow P, attached to said standard, and the handles H, all of which are constructed and arranged in the usual or any preferred manner. The beam B is preferably foreshortened, as shown, and to the forward end of the same is secured a bearing-frame A, in which is journaled the wheel A′, the clevis C being secured at the forward end of the said frame. By means of the frame I am enabled to use a larger wheel and yet have the same in alignment with the standard and share. The frame is secured to the beam B by means of the upper and lower clip-pieces B′ and C′, respectively.

Vertical brackets D are secured to each side of the beam near its forward end and connect said beam with the handles H, and between the said brackets is secured the rigid hopper E, said hopper having an open bottom, and pivoted to the hopper E and beneath the same is the supplemental hopper or vibrating shoe E′, said hopper E′ being opened at its rear end and provided with a spout E^2, which extends into the delivery-chute F, said chute being secured to the rear of the handles and beam and projecting downward directly beneath the standard.

A lever G is secured to one side of the vibrating hopper or shoe E′ and projects forward alongside the wheel A′, which wheel is provided with a series of laterally-projecting pins or studs *a*, adapted to engage the free end of the lever, oscillating the same and communicating a vibratory motion to the shoe E′, which receives the fertilizer or seed from the main hopper E.

A regulator slide-plate K is secured to the rear side of the hopper E and projects down into the vibrating hopper E′, and is adjustable in order that the feed may be regulated.

A cord or chain G′ is attached to the free end of the lever G and is secured at the other end to one of the handles within reach of the operator, as clearly shown, said cord passing through an eye *g* upon the hopper E, and by pulling on the cord the lever is lifted and the distributing stopped. With a fertilizer-distributer constructed as described one can plow and fertilize at the same time, thereby saving a great deal of time, labor, and expense, and my fertilizer-distributer is equally well adapted for planting.

In operation the fertilizer or seed is placed in the hopper E, where it passes down into the supplemental hopper or shoe E′, and, the feed-board having been regulated, the device is started. The wheel A′ in revolving will operate the lever G, which will in turn vibrate the hopper or shoe E′, thus feeding the fertilizer or seed from the spout E^2 to chute F, whereby it is delivered to the ground in the center of the furrow.

Having thus described my invention, what I claim as new is—

In a distributer, the combination, with the beam B, the bearing-frame A, the lower clip B′, the upper clip C′, by means of which the bearing-frame is secured to the forward end of the beam B, the studded wheel A′, the handles

H, the brackets D, connected to the beam and handles, the rigid hopper E, secured to the brackets, the adjustable feed-slide K, the vibrating hopper E′, pivoted to the rigid hopper and beneath the same, the spout E^2, rigid with the vibrating hopper, the feed-delivery chute F, arranged at the rear of the beam, the standard S, secured to the beam directly in advance of the delivery-chute and in alignment with the studded wheel, the lever-arm G, and the rope G′, all arranged and adapted to operate substantially as shown and described.

JAMES W. ROZAR.

Witnesses:
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