

(No Model.)

E. K. CLOVER.
SEEDER.

No. 571,896.

Patented Nov. 24, 1896.

Fig. 1.

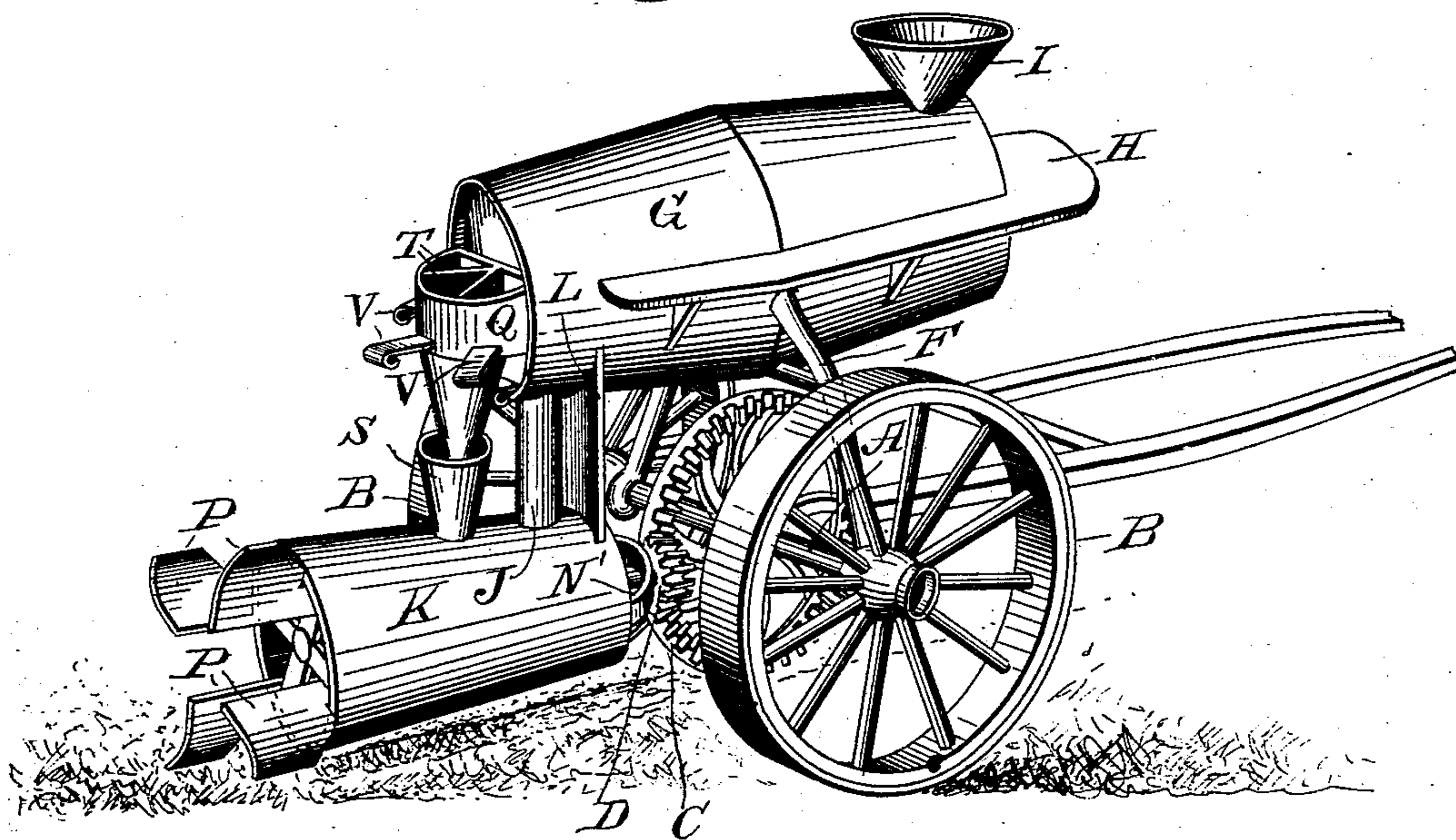


Fig. 2.

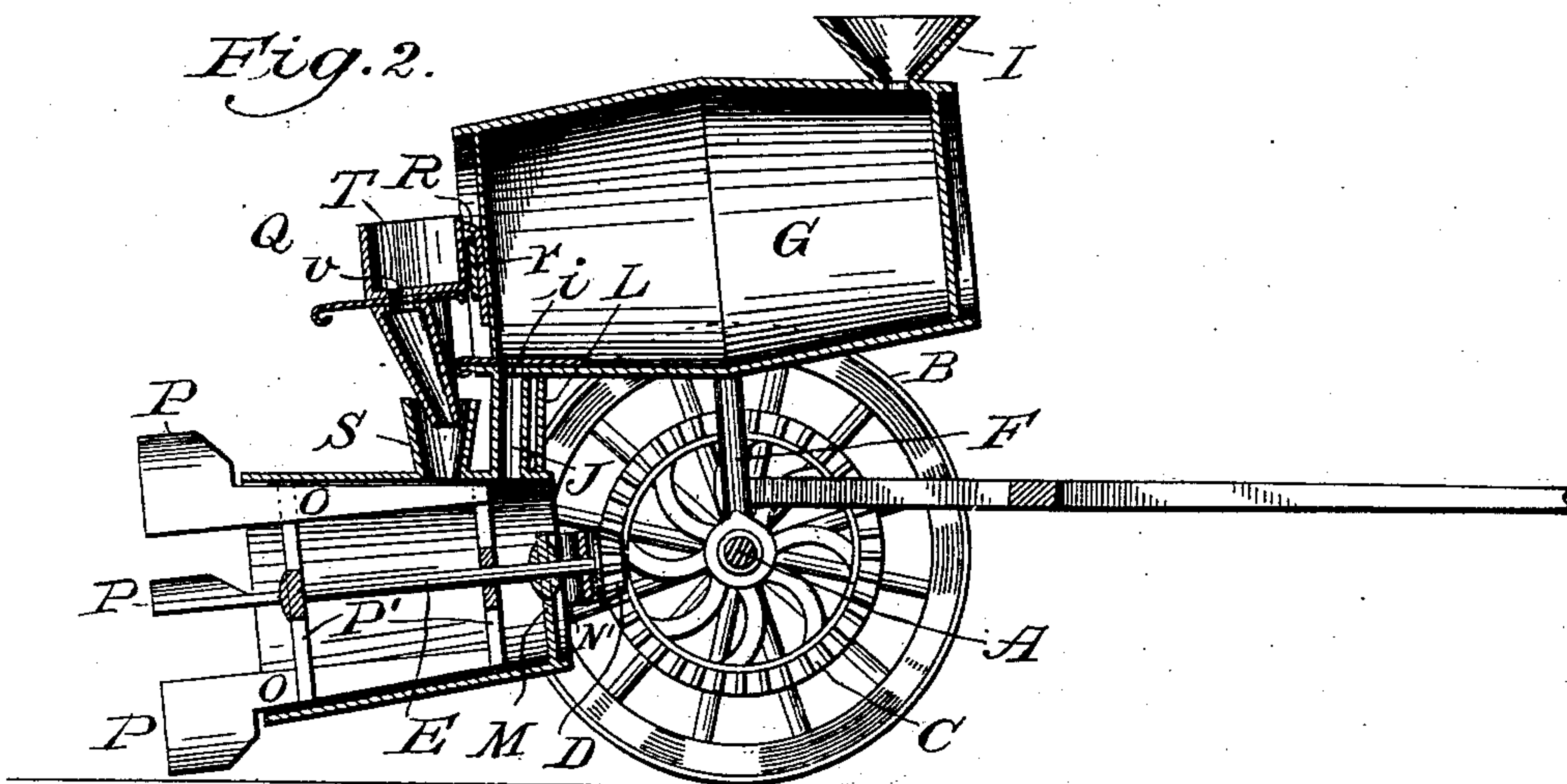
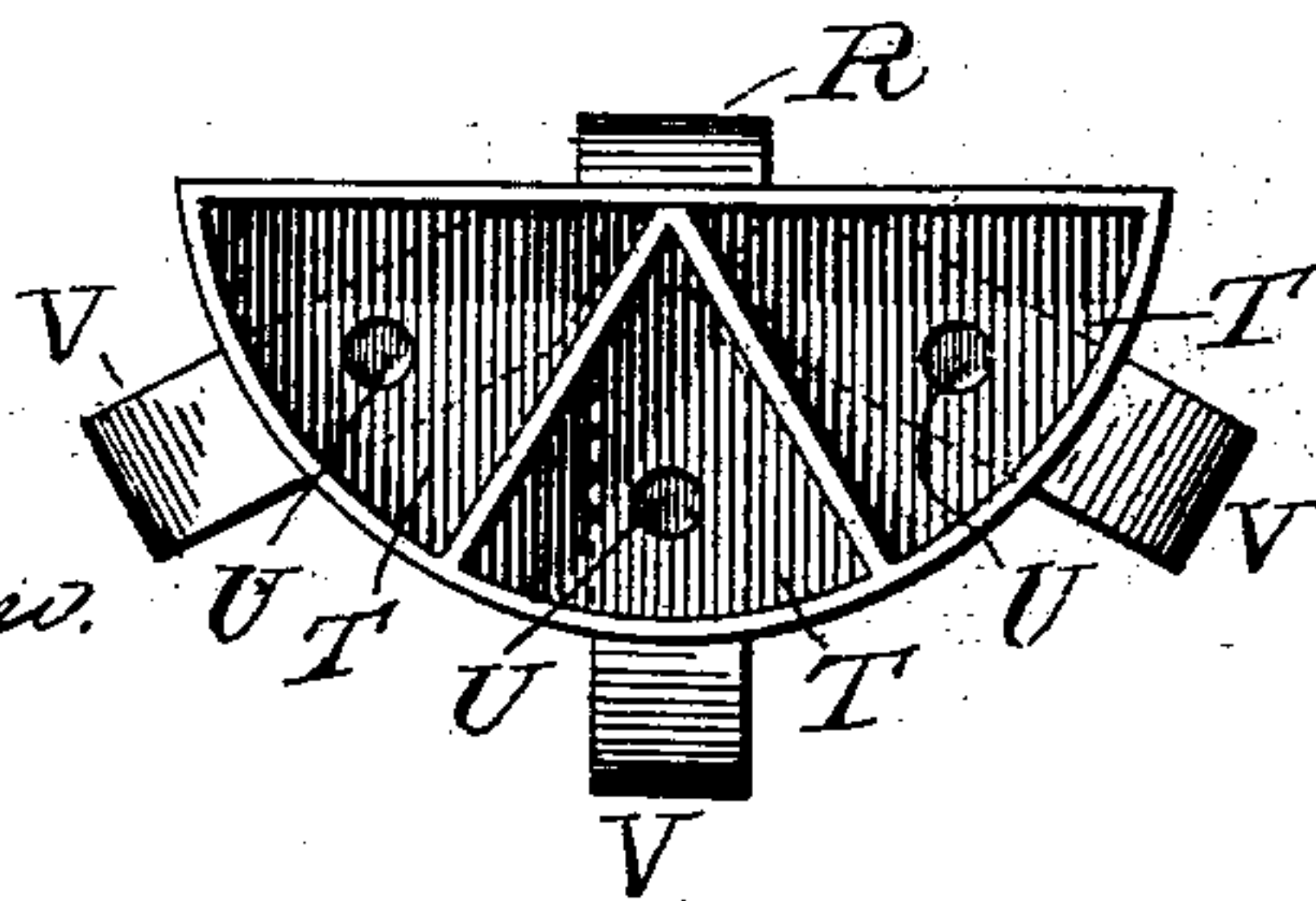


Fig. 3.



WITNESSES

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SEEDER.

SPECIFICATION forming part of Letters Patent No. 571,896, dated November 24, 1896.

Application filed September 15, 1896. Serial No. 605,904. (No model.)

To all whom it may concern:

Be it known that I, ELIOT K. CLOVER, a citizen of the United States, residing at Baton Rouge, in the parish of East Baton Rouge and State of Louisiana, have invented certain new and useful Improvements in Seeders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to certain new and useful improvements in seeders; and it has for its objects, among others, to provide a simple and cheap construction of seeder by which a variety of seeds can be sown and covered at the same time.

The machine requires but little power to run it, practically no attention on the part of the attendant, and the parts are few in number, are readily assembled, and not liable to get out of order.

A machine constructed in accordance with my invention is capable of accomplishing a greater amount of work in a given time with less power than any of the prior forms.

Other objects and advantages of the invention will be hereinafter described, and the novel features thereof will be specifically defined by the appended claims.

The invention in this instance resides in the peculiar combinations and the construction, arrangement, and adaptation of parts, all as more fully hereinafter described, shown in the drawings, and then particularly pointed out in the claims.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a perspective view of my improved seeder. Fig. 2 is a vertical longitudinal section through the same. Fig. 3 is a top plan of the hopper at the rear of the machine.

Like letters of reference indicate like parts throughout the several views.

Referring now to the details of the drawings by letter, A designates the main axle, and B the wheels thereon, which may be of any suitable form of construction having, preferably, broad treads, and fast on this axle is the bevel-pinion C, which is designed to

mesh with the small bevel-pinion D on the longitudinal shaft E.

F is a support or supports for the axle. They depend from the under side of the cylinder or receptacle G, which may be of any desired shape and capacity, and upon one side and end there is a platform or support H for the attendant. At the forward end this receptacle is provided with a filling-spout or hopper I through which the seed may be fed to the receptacle. The receptacle may be divided by a longitudinal partition, so that two kinds of seed may be carried therein. At the rear end upon the under side this receptacle is provided with an outlet *i*, communicating with the tube or spout J, which is secured to and empties into the tapered tubular casing K, which is supported from the rear end of the receptacle by the plate or hanger L, as shown. This casing is arranged with its larger end rearmost, and at its front end it is provided with the end piece M and the yoke N', in which the longitudinal shaft E has bearings. This shaft carries within the casing the longitudinal blades O, that serve to move the seed about therein, and at the outer ends these blades are formed with the shovels or coverers P, that may be bent to any desired shape and project any desired distance beyond the wall of the casing. The arms or blades are suitably braced by the spider-arms P', as shown.

The operation will be apparent. The machine is propelled by horse or other power, and as the axle revolves it revolves the longitudinal shaft, and this in turn revolves the blades and coverers, and of course when the machine is at rest the other parts are not in motion. Any desired seed may be planted through the discharge-spout.

At the rear of the receptacle is detachably mounted the hopper Q, that is retained in position by means of a hook or the like R upon the side thereof nearest the receptacle and which engages in a loop or the like *r* on the end of the receptacle. The lower end of this hopper is funnel-shaped, as shown, and this funnel extends into the funnel S on the top of the casing K. The upper portion of the hopper is provided with a plurality of partitions T, and in the bottom of each of the compartments thus formed is a hole U, through

which the seed placed in said hopper may pass through the funnels into the casing K. Each hole is controlled by a slide V, having a hole U, which, when coincident with the hole in the bottom of the compartment, allows the seed to pass through, but when otherwise than coincident the hole is closed by a solid portion of the slide.

Modifications in detail may be resorted to without departing from the spirit of the invention or sacrificing any of its advantages.

What is claimed as new is—

1. The combination with the receptacle, the main axle and the wheels, of the casing at the rear of the receptacle, the revolving blades within the casing, the means for revolving said blades, and the coverers on the rear ends of the blades, as set forth.

2. The combination with the receptacle and the casing at the rear thereof, of the revolving blades within the casing, the coverers at the rear ends of the blades, and the hopper at the rear of the receptacle and communicating with said casing, substantially as shown and described.

3. The combination with the main axle and the wheels and the coverers, of the bevel-pinion on the axle, the casing, the longitudinal

shaft therein, the bevel-pinion on the front end thereof, and the blades on the shaft within the casing, as set forth.

4. The combination with the receptacle, the axle and the wheels, of the bevel-pinion on the axle, the casing, the longitudinal shaft, the bevel-pinion thereon, the blades on the longitudinal shaft within the casing, and the coverers on the rear ends of said blades, substantially as and for the purpose specified.

5. The combination of the receptacle, the casing supported from the rear end thereof, the axle, the wheels and bevel-pinion on said axle, the longitudinal shaft, the bevel-pinion thereon, the blades on said shaft, the coverers on the rear ends of the blades, the divided hopper detachably mounted on the rear end of the receptacle, the slides therefor, and the funnels between the hopper and the said casing, all substantially as shown and described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

ELIOT K. CLOVER.

Witnesses:

THOS. J. KERNAN,
LAWSON B. ALDRICH.