

No. 731,243.

PATENTED JUNE 16, 1903.

S. B. SWILLING.

PLANTER.

APPLICATION FILED APR. 20, 1903.

NO MODEL.

Fig. 1.

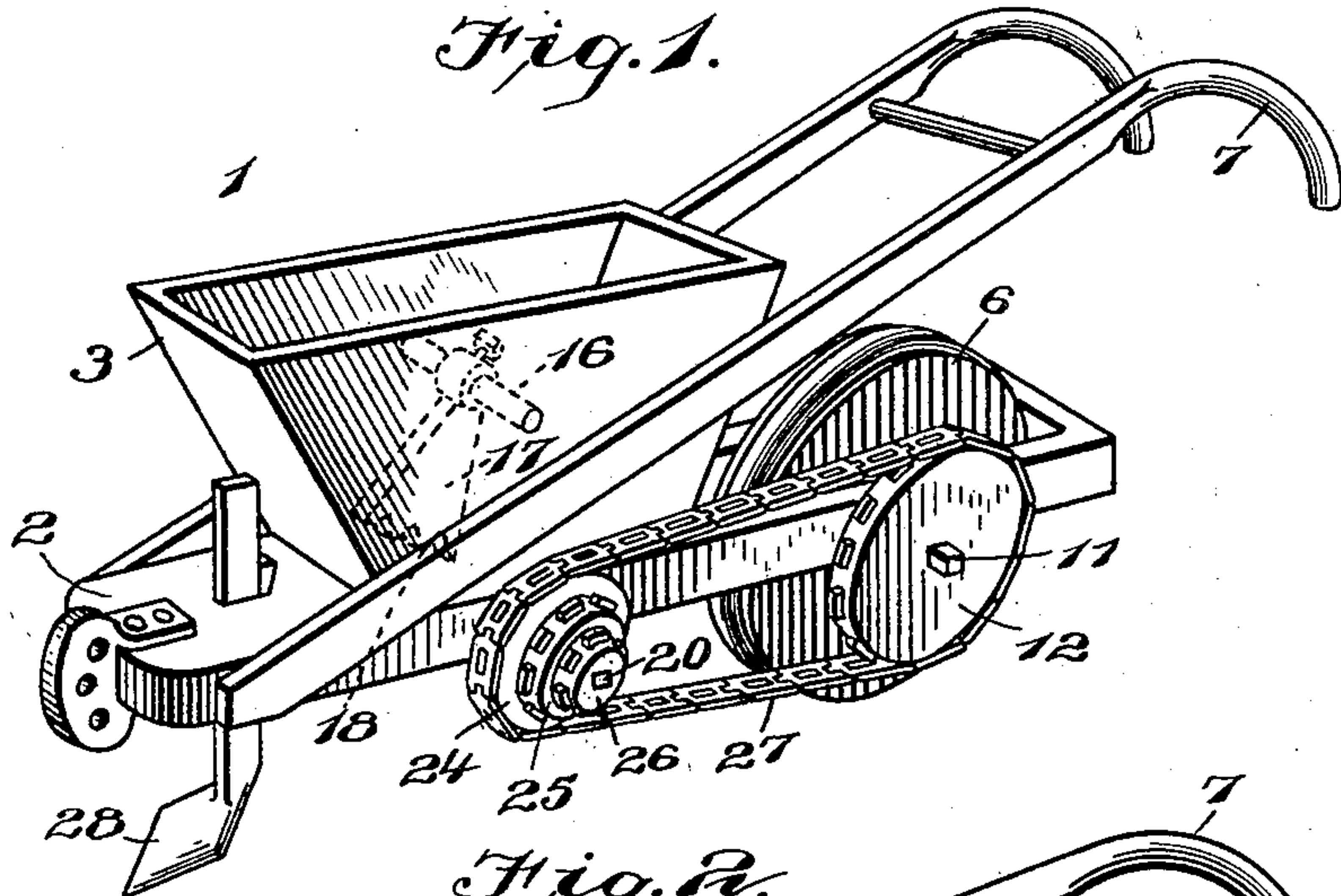


Fig. 2.

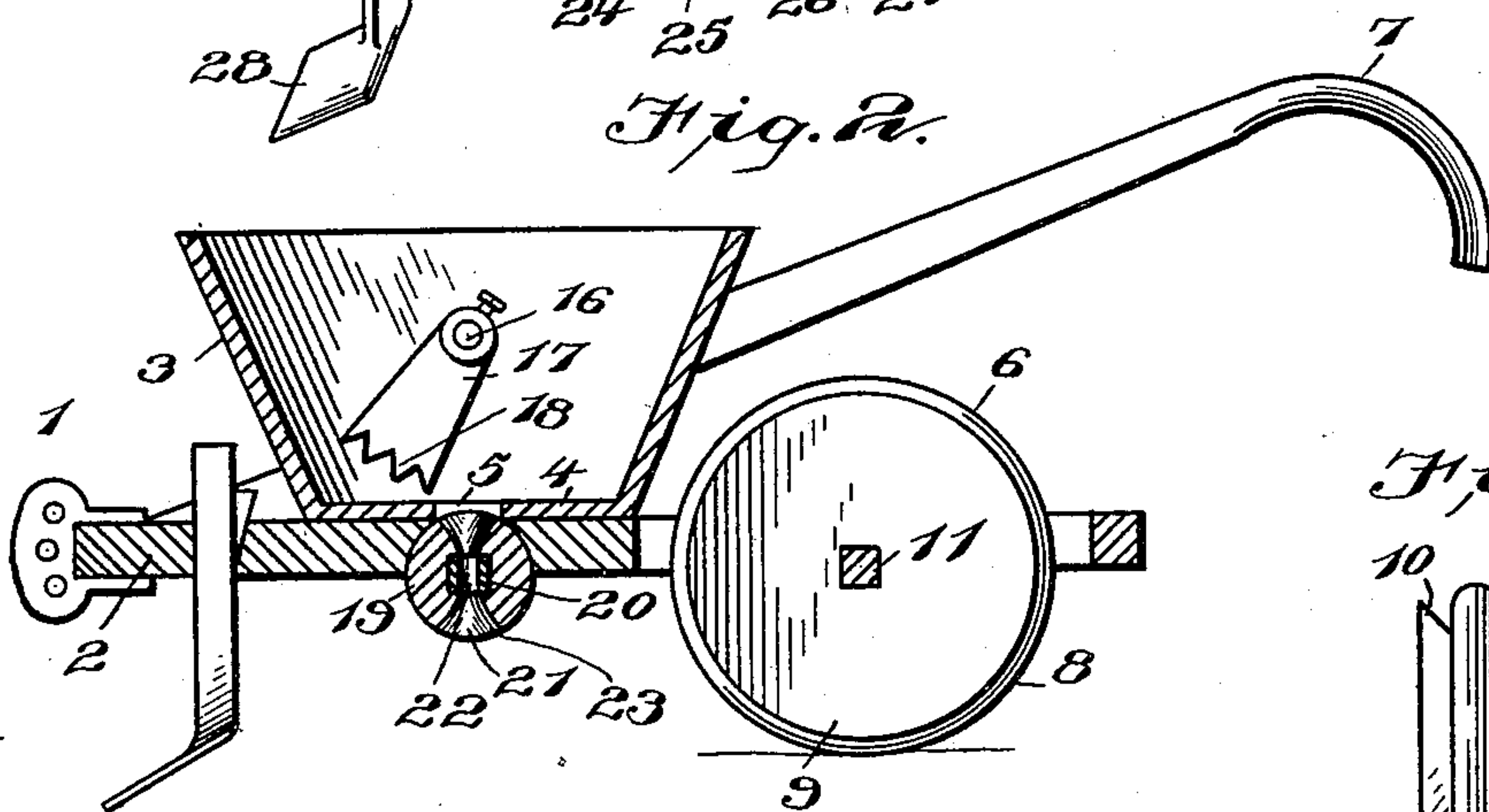


Fig. 3.

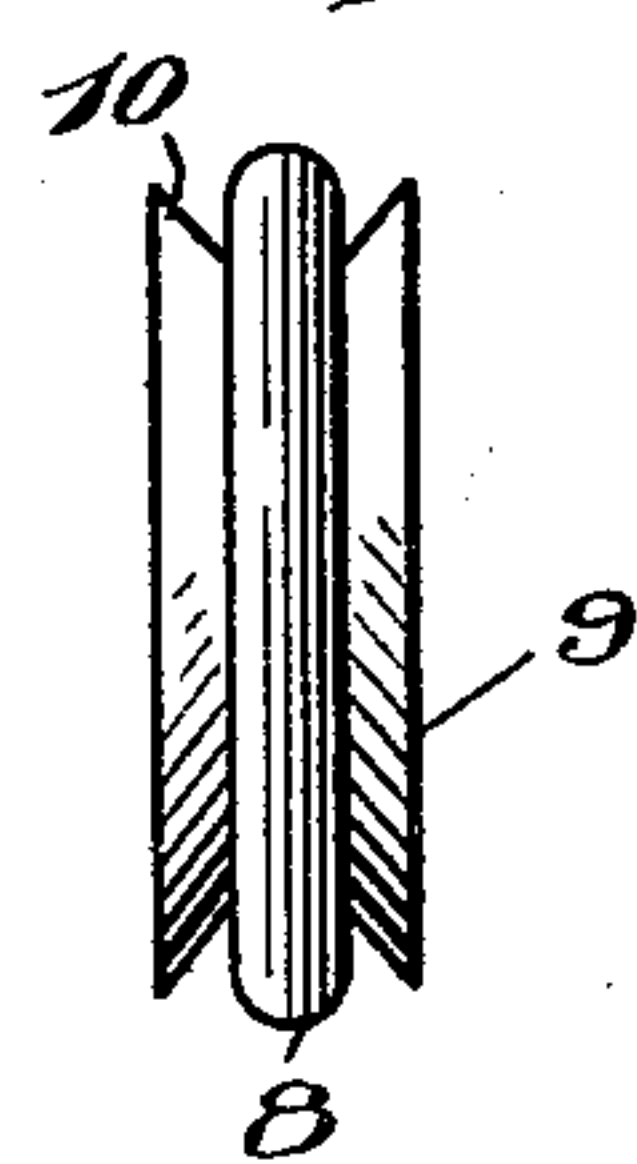


Fig. 5.

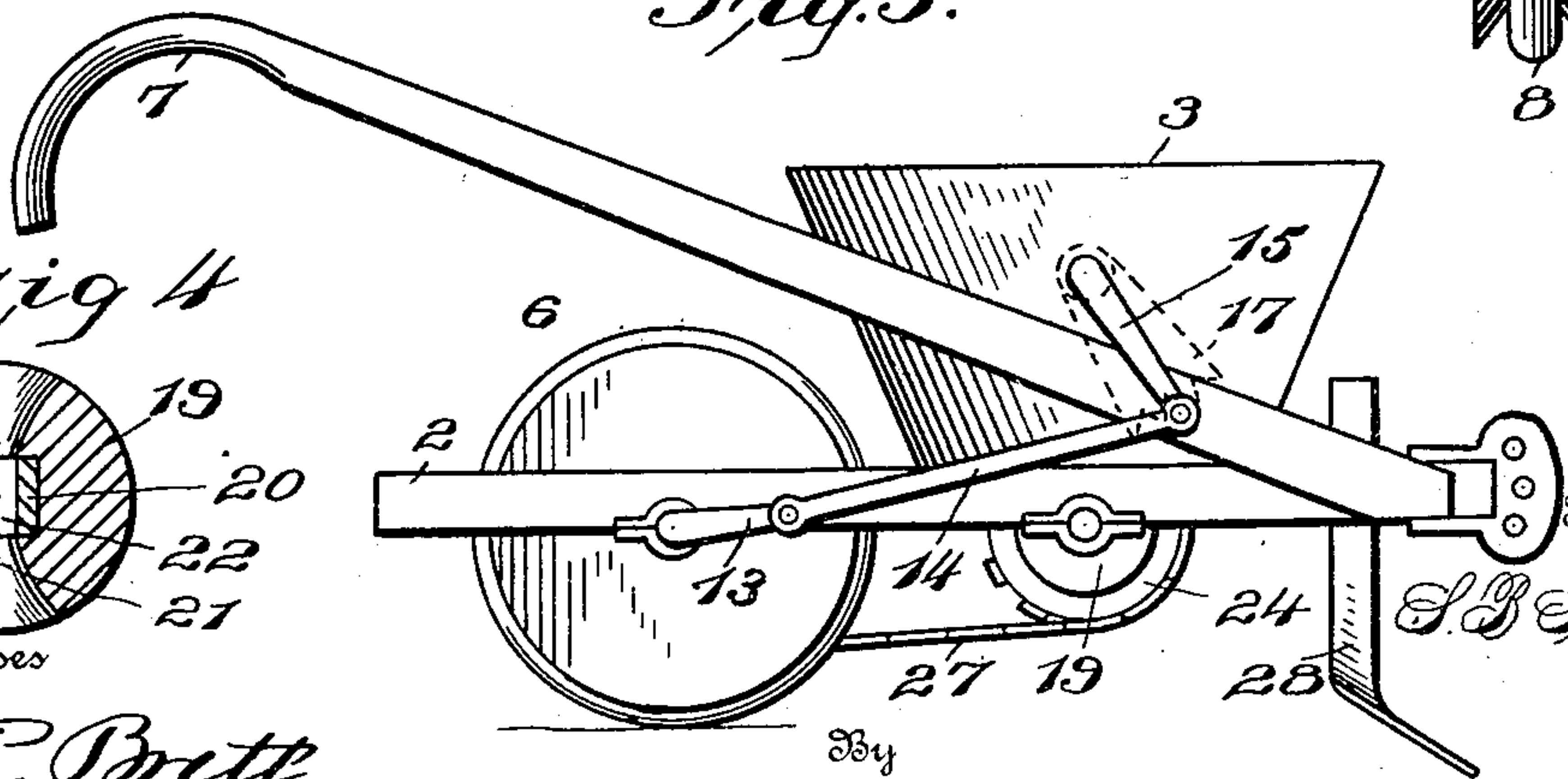
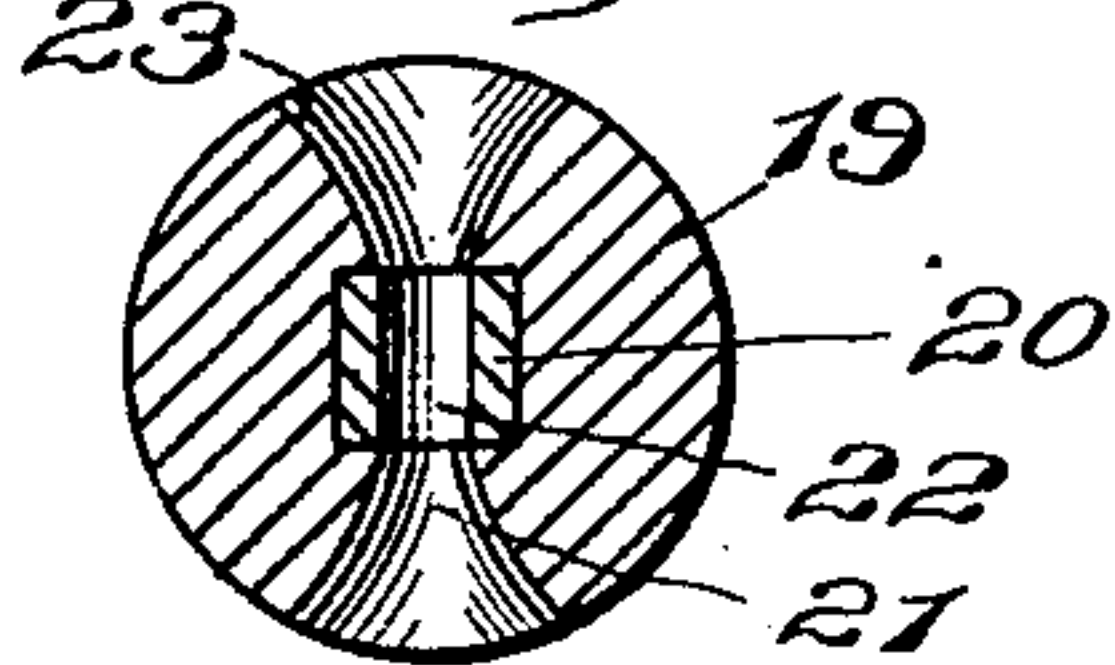


Fig. 4.



Witnesses

J. P. Brett
E. C. Duff

Inventor

S. B. Swilling,

By

C. E. Duffey, Attorney

UNITED STATES PATENT OFFICE.

SAM B. SWILLING, OF CARNESVILLE, GEORGIA.

PLANTER.

SPECIFICATION forming part of Letters Patent No. 731,243, dated June 16, 1903.

Application filed April 20, 1903. Serial No. 153,439. (No model.)

To all whom it may concern:

Be it known that I, SAM B. SWILLING, a citizen of the United States, residing at Carnesville, in the county of Franklin and State of Georgia, have invented certain new and useful Improvements in Planters; and I do 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to planters, but more particularly to cotton-seed planters, and has for its object to provide a device of this class which is simple in construction, easy and cheap to manufacture, and composed of a minimum number of parts.

A further object of my invention is to provide a simple means of regulating the distance between hills.

A further object of my invention is to provide a simple distributing-wheel.

A further object of my invention is to provide a combined driving-wheel, seed packer and coverer.

With all these objects in view my invention consists in the novel arrangement of parts of my machine, but particularly in the distributor and driver.

My invention also consists in certain other novel features of construction and in combination of parts, which will be first fully described and afterward specifically pointed out in the appended claims.

Referring to the accompanying drawings, Figure 1 is a perspective view of my invention. Fig. 2 is a vertical longitudinal section through the same. Fig. 3 is an edge view of the driving-wheel. Fig. 4 is a detail section of the distributor, and Fig. 5 is an elevation of the planter.

Like numerals of reference indicate the same parts throughout the several figures, in which—

1 is the planter, consisting of the body 2, carrying the hopper 3, which is provided with a bottom 4, having a slot 5 therein.

6 indicates the driving-wheel, which is located behind the hopper 3, just forward of the

handles 7. Referring to Fig. 3, it will be seen that said wheel may be made in three sections, the central section 8 having a rounded tread and the side sections 9 having a sharp periphery caused by the bevel 10 on the inner edges of said sections. This construction could, if found desirable, be made in one piece. A square axle 11 passes through said driving-wheel and is journaled in the body 2 in any approved manner. On one end of said axle I provide a large sprocket-wheel 12, slidingly secured thereon, and on the other end a crank 13 is formed, to which is secured a link 14, passing forward to a crank 15, secured to or formed on the rocking rod 16, which is passed into and through the hopper. Secured on said rod is a toothed rocking seed-agitator 17, arranged so that the teeth 18 thereof extend almost to the slot 5 in the bottom of the hopper. Located directly below said slot is the distributor 19, which is preferably secured on a square shaft 20, suitably journaled in the body 2. Said distributor is provided with an opening 21, passing directly through the center of said distributor, and said shaft 20 is also provided with an opening 22 therein, registering with the opening 21. As said opening 21 approaches the periphery of the distributor it flares at 23, so that the opening has a diameter equal to the length of the slot 5 in the bottom of the hopper. Secured on the right-hand end of said shaft 20 are a series of sprocket-wheels 24, 25, and 26, and a chain 27 is adapted to pass over one of them and over the main sprocket-wheel 12. The purpose of the series of sprockets of different diameter is to allow for a variation of gearing with the main sprocket, so as to regulate the revolution of the distributor, whereby the hills may be made close or otherwise, as desired.

Forward of the distributor I locate a drill-opening tooth 28, which may be adjustably secured in any suitable manner, so as to regulate the depth of the furrow.

Having thus described the several parts of my invention, its operation is as follows: When the seed is placed in the hopper and the planter is under way, the drill-tooth makes a furrow, and the driving-wheel operates the seed-agitator in the hopper and re-

volves the distributor by means of the chain. When the flare of the opening 21 passes under the slot in the hopper, the seed passes out and directly through the distributor into the 5 furrow. The driving-wheel following presses the seed into the ground, the side sections thereof by reason of their bevels pulling the earth over the seed, making a small ridge. When it is desired to change the distance be- 10 tween the hills, the main sprocket-wheel 12 is moved out along its shaft until in line with the other sprocket to which it is to be geared, the chain having been removed and links taken therefrom in order to shorten the same. 15 Having thus set forth my invention, I do not wish to be understood as limiting myself to the exact construction herein set forth, as various slight changes may be made therein which would fall within the limit and scope 20 of my invention, and I consider myself clearly entitled to all such changes and modifications.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a planter, the combination of the 25 driving-wheel and seed-hopper of an agitator within said hopper, a distributor beneath said hopper and driven by said driving-wheel, said distributor being provided with an opening therein passing directly through said dis- 30 tributer.

2. In a planter, the combination with the driving-wheel and seed-hopper, of a distributor beneath said hopper, said distributor being provided with an opening therein passing 35 directly through said distributor, said opening being flared near the periphery of said distributor.

In testimony whereof I affix my signature in presence of two witnesses.

SAM B. SWILLING.

Witnesses:

W. C. HALL,
W. R. LITTLE.