

(No Model.)

W. D. McCANN.
POWDER DISTRIBUTER.

No. 462,986.

Patented Nov. 10, 1891.

FIG. 1.

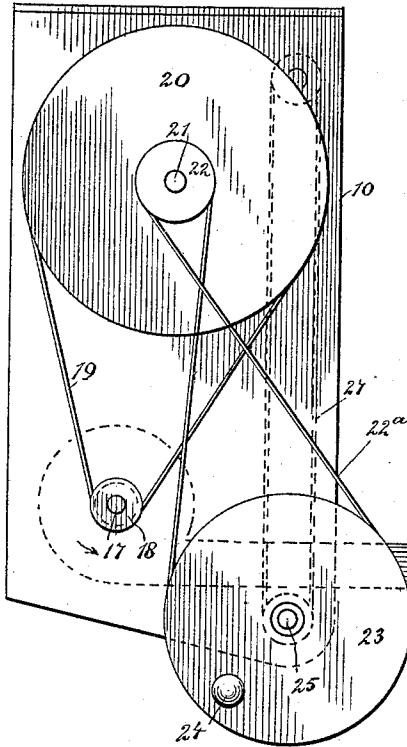


FIG. 2.

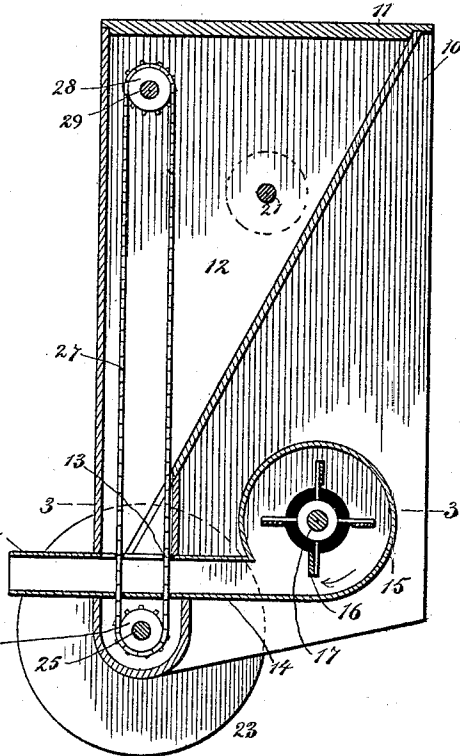
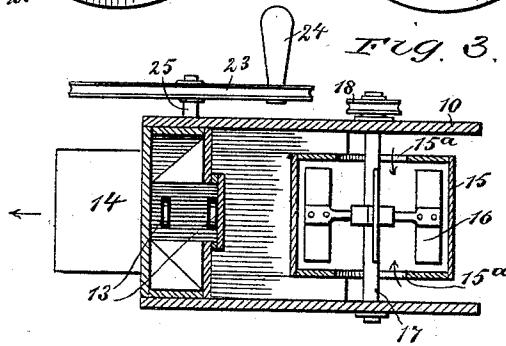


FIG. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

WILLIAM D. MCCANN, OF SAN FRANCISCO, CALIFORNIA.

POWDER-DISTRIBUTER.

SPECIFICATION forming part of Letters Patent No. 462,986, dated November 10, 1891.

Application filed May 23, 1891, Serial No. 393,810. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM D. MCCANN, of San Francisco, in the county of San Francisco and State of California, have invented a new and Improved Distributer, of which the following is a full, clear, and exact description.

My invention relates to improvements in that class of machines which are adapted to distribute sulphur or other powder upon vines or in any place where it is necessary to distribute the powder evenly; and the object of my invention is to produce a simple and inexpensive machine which operates with great rapidity, which effects a great saving in the powder distributed, which may be conveniently carried about, and which is also adapted to scatter light seeds, which are usually sown broad-cast.

To this end my invention consists in a distributer constructed substantially as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation of the machine. Fig. 2 is a vertical sectional elevation of the same, and Fig. 3 is a horizontal cross-section on the line 3 3 in Fig. 2.

The frame of the machine consists of a hollow case 10, which is provided with a removable cover 11, and the case is preferably made of a size so that by means of straps it may be conveniently carried by a person, although for certain uses the machine may be made large and may be mounted upon wheels.

The machine is provided with a hopper 12, which is arranged in the upper part of the case, and which delivers through slots 13 in the bottom into a horizontal chute 14, which projects from the front portion of the case, and which at its inner end terminates in a casing 15, having side openings 15^a for the admission of air, and this casing covers a fan-wheel 16, which is secured to a shaft 17, mounted transversely in the lower portion of the case 10 and having a driving-pulley 18 on one end, which end projects through the side of the case.

The fan-wheel 16 may be of any approved construction, and it is rotated in the direction

of the arrows, and it will be seen that when moved in this direction the air will be drawn into the casing 15 through the side openings 15^a and expelled through the chute 14. The fan-wheel is driven by a belt 19, which extends from the pulley 18 over a pulley 20, and the latter pulley is mounted on a transverse shaft 21, which shaft carries a small pulley 22, and this pulley connects by a belt 22^a with a pulley 23, which is mounted on a shaft 25 in the lower front end of the case, and is provided with a crank 24, by means of which it may be revolved.

It will be seen that the pulley 23 furnishes power for the entire machine, and it is obvious that instead of using belts to drive the various shafts any approved form of gearing or other driving mechanism may be substituted.

The shaft 25 is arranged beneath the chute 14, and is provided with a sprocket-wheel 26, which connects by means of a chain 27 with a sprocket-wheel 28 in the upper portion of the hopper 12, and the latter sprocket-wheel is mounted on a shaft 29, which is supported in the sides of the case 10. The chain 27 extends upward through slots in the lower portion of the chute 14 and through the slots in the upper side of the same, and it will be seen that when the machine is operated the chain will be revolved, and it will carry with it into the chute 14 sufficient sulphur or other powder to supply the chute, and will also serve to break up any lumps in the powder, so that the same will be blown from the chute in a fine spray.

To operate the machine the hopper 12 is filled with sulphur or with other matter to be distributed, the machine is supported in front of the operator, and the chute 14 pointed in the direction in which it is desired to direct the material in the hopper. The pulley 23 is then rapidly revolved, and this by means of the connecting driving mechanism moves the chain 27, feeds the material from the hopper into the chute 14, and the moving fan 16 blows the material from the chute.

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

1. In a distributer, the combination, with a fan-chute and a hopper communicating there-

with, of an endless chain for agitating the contents of the hopper and feeding the same into the chute, substantially as described.

2. A distributor comprising a frame, a revolvable fan-wheel mounted therein, a casing for the fan-wheel, which casing terminates in an outwardly - extending chute, a hopper arranged to deliver into the chute, a feeding-chain extending through the chute and hopper, and driving mechanism for revolving the fan-wheel and carrying the feeding-chain, substantially as described.

3. A distributor comprising a frame, a fan-wheel mounted therein, a casing for the fan-

wheel, which casing terminates in a chute, a hopper arranged to deliver into the chute, sprocket-wheels mounted above and below the chute, the upper one being in the hopper, a feed-chain connecting the sprocket-wheels, and driving mechanism for revolving the fan-wheel and sprocket-wheels and extending through the chute and hopper, substantially as described.

WILLIAM D. McCANN.

Witnesses:

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