

(No Model.)

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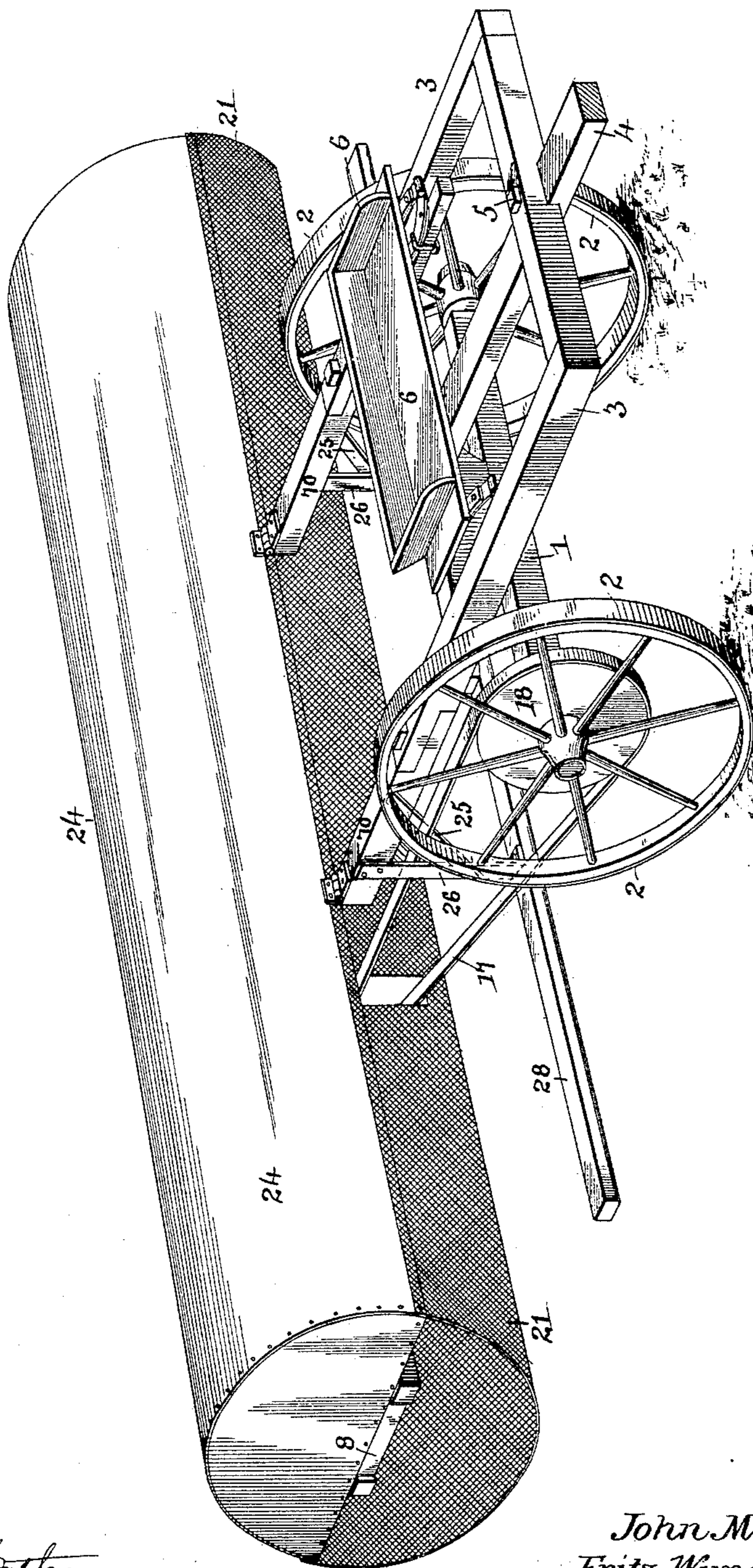
J. M. KRUEGER & F. WUNDERLICH.

POISON DISTRIBUTER.

No. 477,127.

Patented June 14, 1892.

FIG. 1.



Witnesses

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By their Attorneys,

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(No Model.)

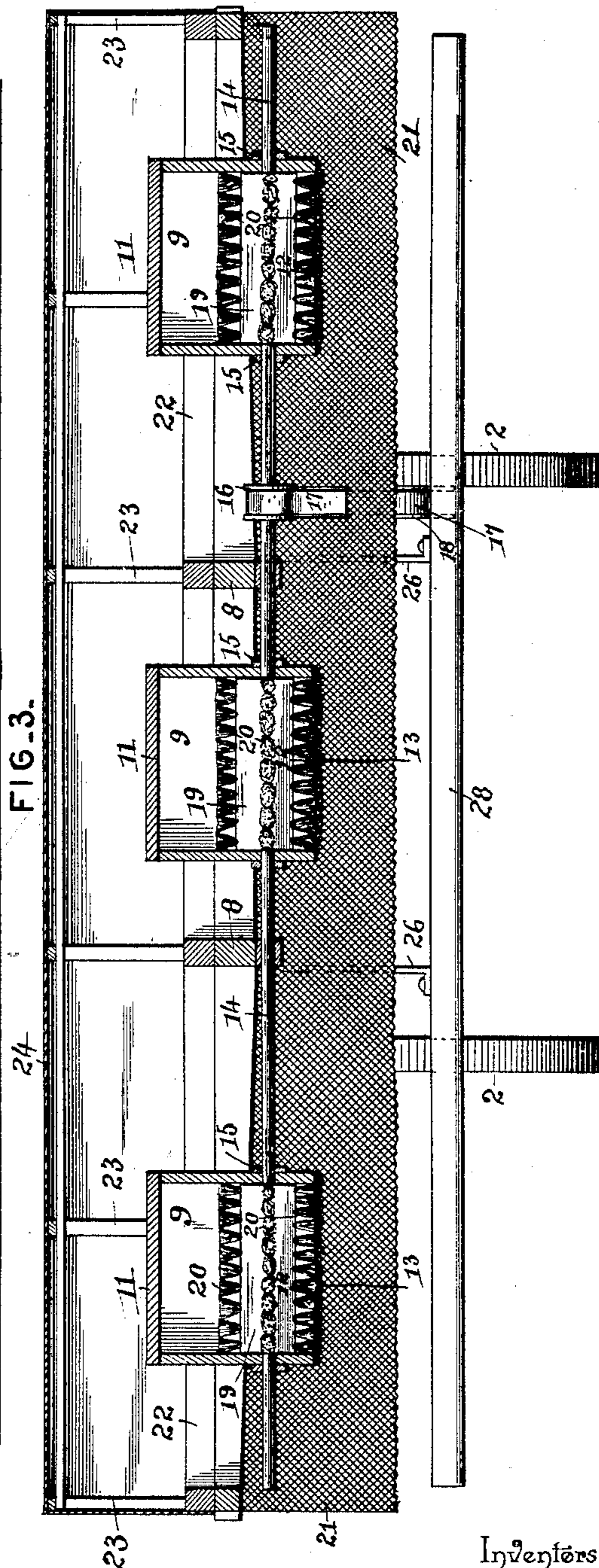
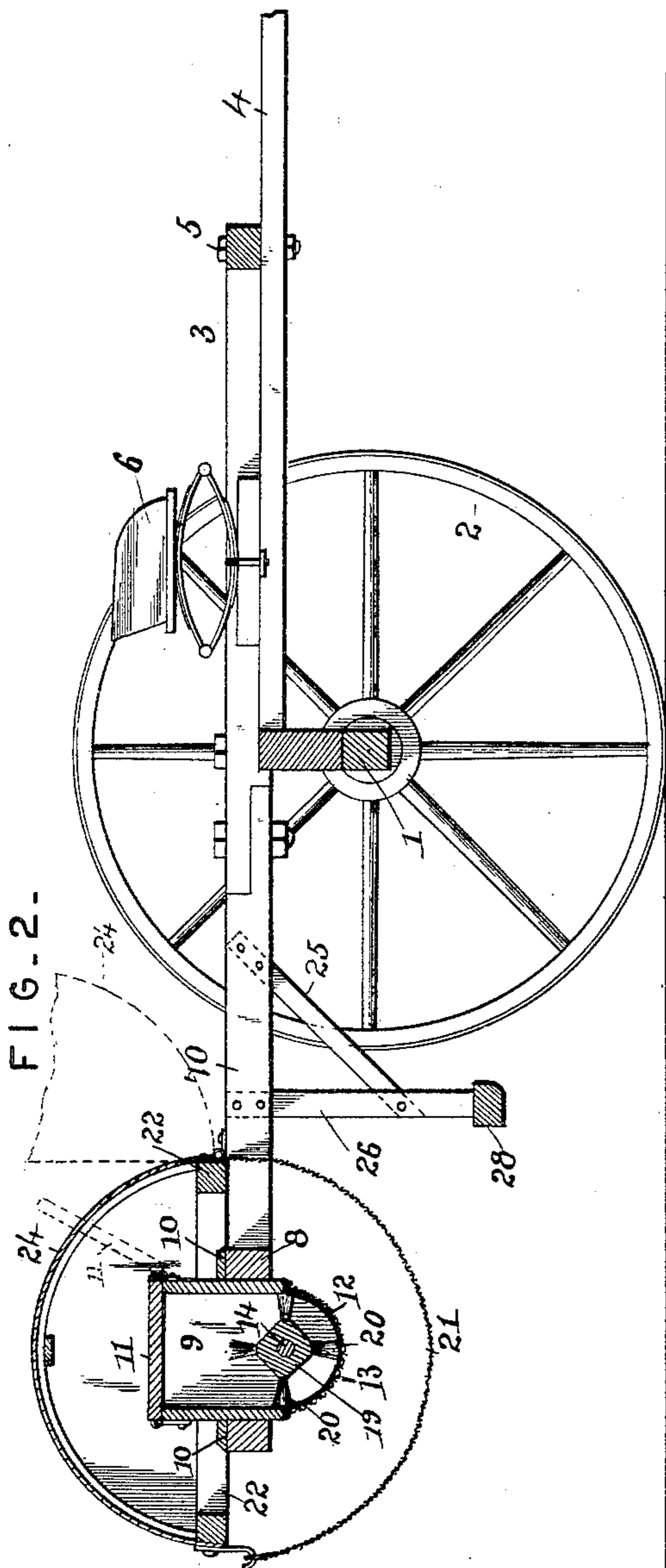
2 Sheets—Sheet .2.

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No. 477,127.

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UNITED STATES PATENT OFFICE.

JOHN M. KRUEGER AND FRITZ WUNDERLICH, OF SHINER, TEXAS.

POISON-DISTRIBUTER.

SPECIFICATION forming part of Letters Patent No. 477,127, dated June 14, 1892.

Application filed October 6, 1891. Serial No. 407,922. (No model.)

To all whom it may concern:

Be it known that we, JOHN M. KRUEGER and FRITZ WUNDERLICH, citizens of the United States, residing at Shiner, in the county of Lavaca and State of Texas, have invented a new and useful Poison-Distributor, of which the following is a specification.

This invention relates to poison-distributors, and the objects in view are to provide an economically and simply constructed machine adapted to be drawn along over rows of plants and to spread powdered poison over the same for the destruction of insects.

A further object of the invention is to afford a proper protection for the driver and to provide for a general sure distribution of the poison.

Other objects and advantages of the invention will appear in the following description, and the novel features thereof will be particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a perspective of a poison-distributor constructed in accordance with our invention. Fig. 2 is a vertical longitudinal section. Fig. 3 is a transverse section through the poison-distributing hoppers.

Like numerals of reference indicate like parts in all the figures of the drawings.

The axle 1 is provided at its ends with the ground-wheels 2 and supports the rectangular frame 3. The draft-tongue 4 is secured to the axle and extends forwardly under the frame, to which latter it is bolted at 5. The seat 6 may be of any ordinary construction, as, in fact, may the frame, the same being unimportant.

The side bars of the frame have bolted thereto extensions 7, the same reaching rearwardly a considerable distance beyond the ground-wheels and supporting a transversely-disposed narrow rectangular or oblong frame 8. In this frame is mounted a series of poison-receiving hoppers 9, having cleats 10 at their front and rear sides, which overlap and are secured to the opposite side bars of the frame. The hoppers are provided with lids 11, hinged to their rear walls, and with perforated or reticulated bottoms 12 of semicircular shape. The bottoms 12 have superimposed thereover a covering 13 of textile fabric of some open mesh. 14 designates an agitator-shaft, which is journaled at intervals in

the opposite end walls of the several hoppers, for which purpose said end walls are provided with bearing-openings 15. Upon the shaft a pulley 16 is mounted, and an endless belt 17 encircles the same and a large pulley 18, mounted on the inner side of one of the ground-wheels, so that motion from the ground-wheel is imparted to the agitator-shaft. Within each of the hoppers the agitator-shaft is provided with an agitating hub or wheel 19, and from the same radiate brush-tufts 20, the ends of the tufts being designed to travel against the fabric or textile bottom of the hoppers. A semicircular wire-gauze screen 21 has its opposite edges secured to the opposite side bars of the transverse hopper-supporting frame and is of such width as to depend therefrom and bag thereunder, and thus constitute an efficient distributor. A rectangular cover, semicircular in cross-section and consisting of an oblong frame 22, traversed by curved ribs 23 and covered with an oil-cloth or other cover 24, is hinged at its rear edge to the front side bar of the transverse frame and when lowered covers the hoppers and prevents the indiscriminate blowing about and wasting of the powdered poison, as well as protects the driver from the same. The cover may be raised for the purpose of filling the hoppers. From the extensions of the side bars, immediately in front of the hoppers, hangers 26 depend, are braced by inclined braces 25, and support at their lower ends a transverse bar 28, known as a "deflecting-bar."

In operation, the two pulleys being thrown into gear by the belt, motion is imparted from the drive-wheel, with which the main pulley is connected, through the two pulleys and belt to the agitating-shaft, which, rotating, revolves the series of brushes within the several hoppers, and the said brushes force the finely-powdered poison through the meshes of the fabric or textile bottoms, from which it falls through the foraminous bottoms to the distributing-screen, where it is dusted evenly over the rows of plants which the machine straddles. The deflecting-bar, located in advance of the hoppers but a short distance, coming in contact with the plants, serves to bend the same and reverse their leaves, so that previous to their release by the bar the poison has been sprinkled thereover and the

poison has been administered at the best points upon the plants—namely, under their leaves, which localities the bugs usually infest.

From the foregoing description, in connection with the accompanying drawings, it will be seen that we provide a machine of great simplicity and that the distributor as an attachment may be applied to any sulky-plow or other convenient implement and will thoroughly and evenly and with judiciousness spread powdered poison, and thus rid the plants of the injurious insects.

Having described our invention, what we claim is—

15 1. In a poison-distributor, the combination, with the supporting frame-work and the transverse frame supported thereby, of the series of hoppers seated in the transverse frame, a cover removably mounted on the transverse
20 frame, an agitator-shaft horizontally journaled in the hoppers and at its ends in the transverse frame, means for rotating the same, and a reticulated bottom located in each of said hoppers, substantially as specified.

25 2. In a poison-distributor, the combination, with the transverse hopper-supporting frame, the series of hoppers mounted in the frame, the transverse agitator-shaft, means for operating the shaft, and brushes mounted on the

shaft within each hopper, of the reticulated
30 depending distributing-screen secured to the transverse frame, the reticulated bottoms secured to the hoppers, and the textile-fabric bottoms superimposed over the reticulated bottoms and in contact with the brushes, sub-
35 stantially as specified.

3. The combination, with the axle, the ground-wheels, the pulley on one of the same, the rectangular frame having the rearward extensions bolted thereto, the depending hang-
40 ers, and the transverse deflecting-bar secured thereto, of the oblong frame secured to the extensions, the hoppers mounted in the transverse frame, the agitator-shaft journaled in the hoppers, the reticulated bottoms of the hop-
45 pers, the depending bagging reticulated distributor located under the transverse frame, and the hinged cover for the transverse frame, substantially as specified.

In testimony that we claim the foregoing as
50 our own we have hereto affixed our signatures in the presence of two witnesses.

JOHN M. KRUEGER.
FRITZ WUNDERLICH.

Witnesses:

F. O. SMITH,
C. L. WILLIAMS.