

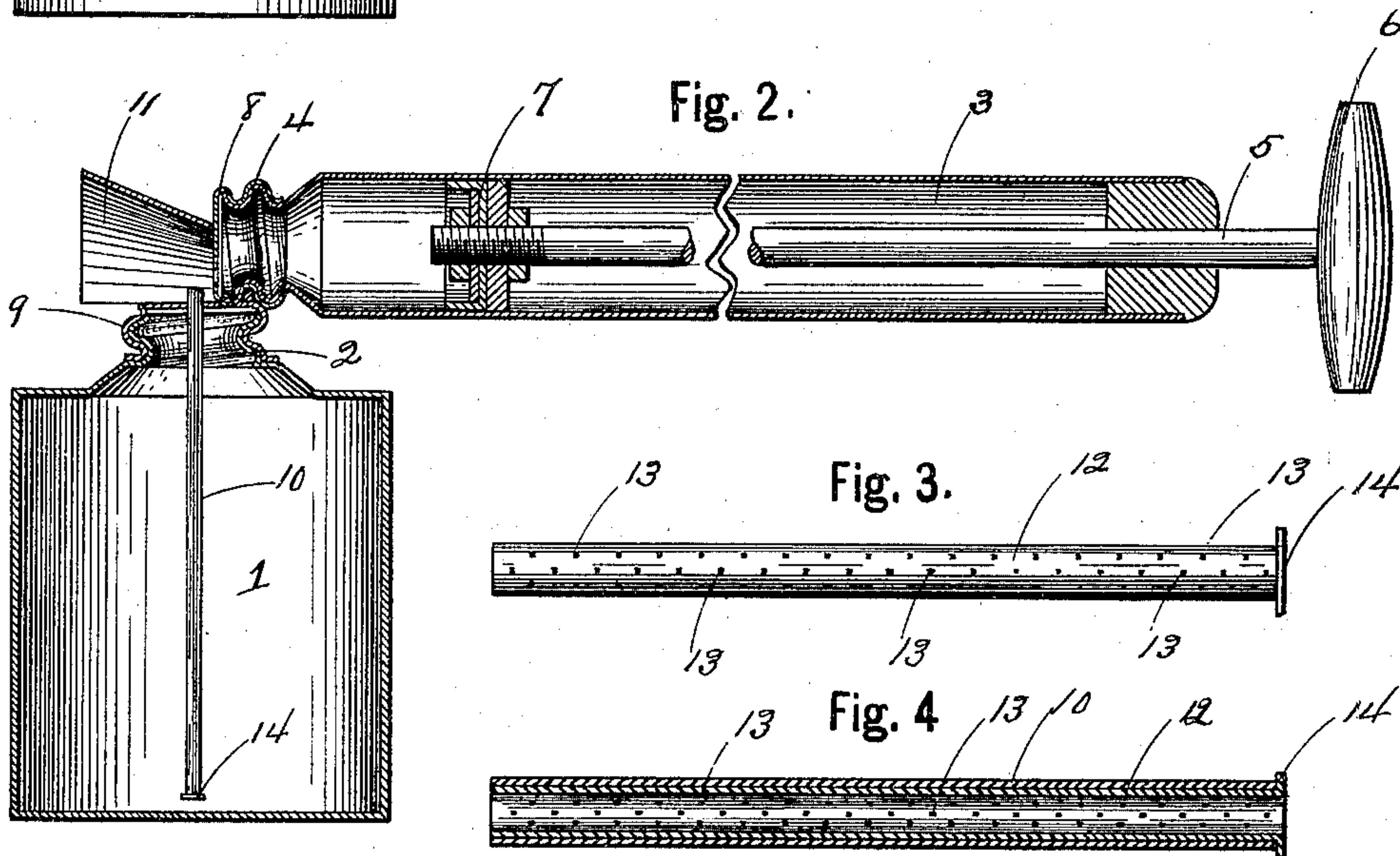
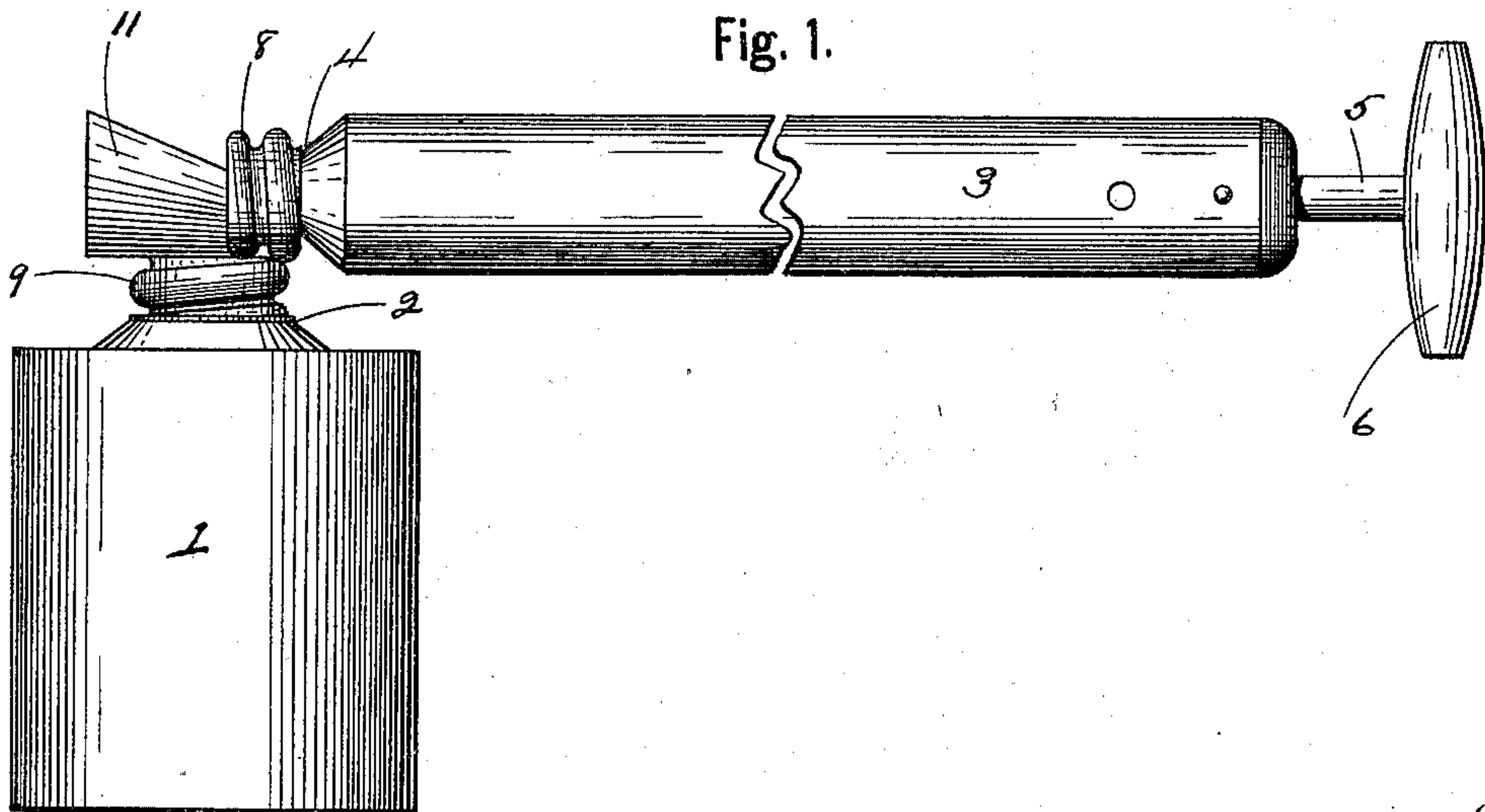
No. 627,146.

Patented June 20, 1899.

C. S. SHEPARD.
SPRAYING DEVICE.

(Application filed Jan. 26, 1899.)

(No Model.)



WITNESSES:

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SPRAYING DEVICE.

SPECIFICATION forming part of Letters Patent No. 627,146, dated June 20, 1899.

Application filed January 26, 1899. Serial No. 703,456. (No model.)

To all whom it may concern:

Be it known that I, CHARLES S. SHEPARD, a citizen of the United States, residing at Cherry Creek, in the county of Chautauqua and State of New York, have invented certain new and useful Improvements in Spraying Devices, of which the following is a specification.

My invention relates to a portable hand spraying device; and the object thereof is to simplify and cheapen the construction of devices of this nature.

This invention further relates to certain details of construction, all of which will be fully and clearly hereinafter described and claimed, reference being had to the accompanying drawings, in which—

Figure 1 represents a side elevation of my improved device. Fig. 2 is a vertical longitudinal section through the same. Fig. 3 is a detached side elevation of the double-cap device and the suction-tube. Fig. 4 is a longitudinal section through the suction-tube.

In referring to the drawings for the details of construction, like numerals designate like parts.

The vessel or receptacle 1 for the spraying material is preferably an ordinary tin can similar to the cans employed in preserving establishments, and it is provided with an opening in its top over which a screw-nozzle 2 is rigidly secured by solder or similar means.

My preferred adaptation of an air-pump comprises a barrel 3, having a screw-threaded nozzle 4, and a plunger-rod 5, adapted to move longitudinally within the barrel and having an operating-handle 6 at its outer end and a plunger 7 at its inner end. The vessel 1 and the air-pump are connected together by means of a double-cap device, in which the cap 8, adapted to screw upon the nozzle 4 of the air-pump, is arranged at right angles upon the top of the cap 9, which is adapted to screw upon the nozzle 2 of the vessel. The cap 8 is provided with a small opening for the passage of the air from the pump, and a similar opening is provided in the cap 9, through which the upper end of the suction-tube 10 extends and is rigidly fastened. A curved portion 11, forming a hood, is rigidly fastened by solder or similar means to the top of the cap 9 in front of and with its side edge against the cap 8, to which it is also secured by solder or simi-

lar means, the hood serving to deflect the spray and also to additionally secure the two caps in position relative to each other.

To provide for cleaning the suction-tube 10, a tube 12, having a series of perforations 13, is adapted to be inserted in said tube 10 and is provided at one end with a flange 14, which limits its entrance into the tube 10 and also affords means for easily withdrawing it therefrom.

The operation of the device will be easily understood from the foregoing description and drawings. The vessel being filled with the spraying material, the pump is operated to siphon the material through the suction-tube and spray it upon the plants or articles desired.

In course of time the suction-tube is apt to become clogged with material, and to remove the same the double-cap device is detached from the vessel and the suction-tube cleaned by the insertion of an instrument, or the suction-tube may be provided with my improved perforated cleaning-tube, which can be withdrawn and easily cleaned by means of the perforations.

I am aware that changes in the form and proportion of parts in the details of construction of the device herein shown and described as the preferred embodiment of my invention may be made by a skilled mechanic without departing from the principle or sacrificing any advantages of my invention, and I therefore reserve the right to make such modifications and alterations as fairly fall within the scope of my invention.

I claim as my invention—

1. A portable hand spraying device comprising a vessel for holding the material, having a screw-threaded nozzle, an air-pump having a screw-threaded nozzle, and a double-cap device composed of two caps arranged at right angles to each other and one adapted to screw upon the nozzle of the vessel and the other upon the nozzle of the pump, and a suction-tube extending through the vessel-cap and into said vessel, as set forth.

2. A portable hand spraying device comprising a vessel for holding the material, having a screw-threaded nozzle, an air-pump having a screw-threaded nozzle, and a double-cap device composed of two caps arranged at

right angles to each other and one adapted to screw upon the nozzle of the vessel and the other upon the nozzle of the pump, a suction-tube extending through the vessel-cap and
5 into said vessel and a hood arranged upon one cap for deflecting the spray and additionally securing the two caps together, as set forth.

3. In a spraying device, the combination
10 with the suction-tube thereof, of a perforated cleaning-tube adapted to be placed within

said suction-tube, as and for the purposes described.

4. In a spraying device, the combination with the suction-tube thereof, of a perforated
15 cleaning-tube adapted to be placed within said suction-tube, and having a flanged lower end, as and for the purposes described.

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