

(No Model.)

M. B. BROOKS.
SPRAYING MACHINE.

No. 597,948

Patented Jan. 25, 1898.

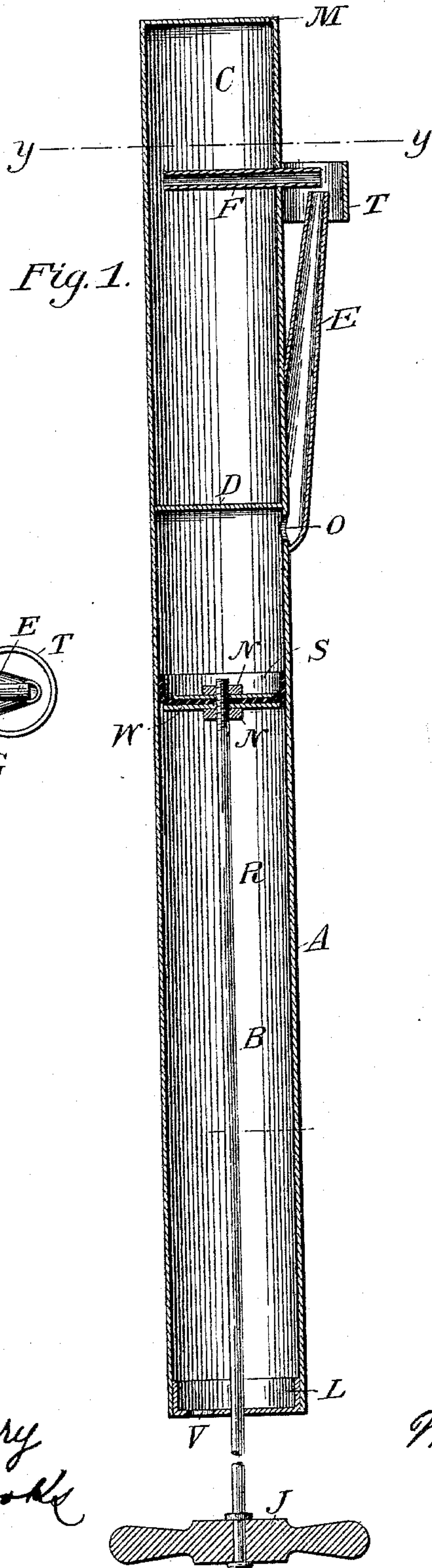


Fig. 1.

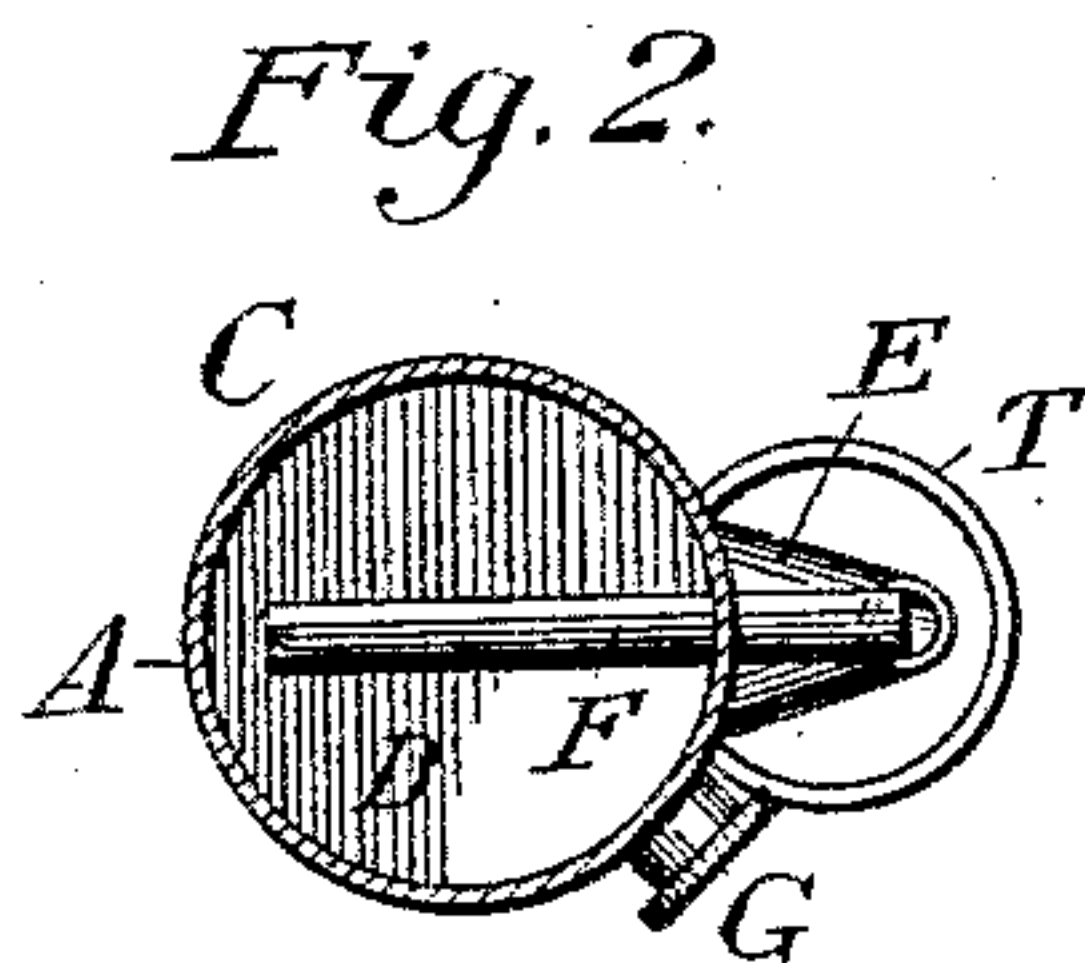


Fig. 2.

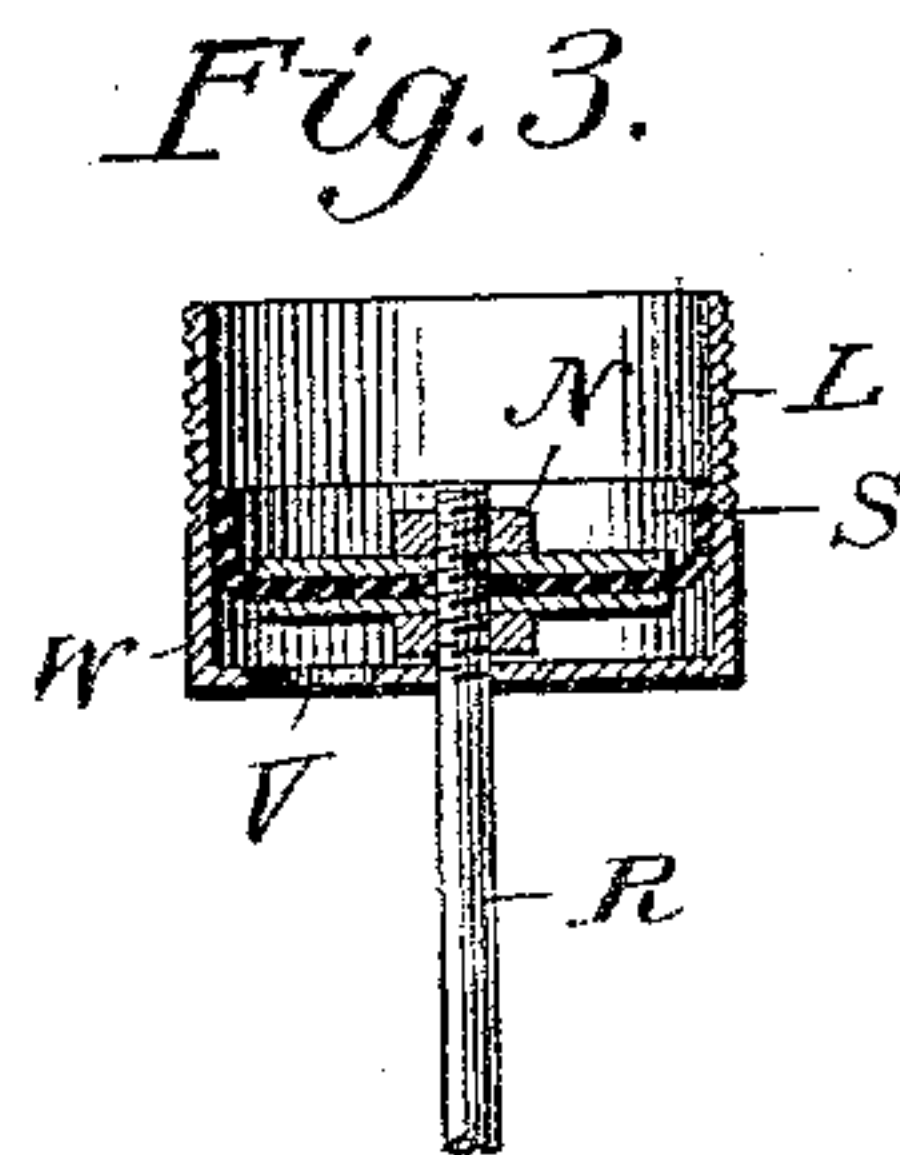


Fig. 3.

Witnesses.
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MOTT BILLINGS BROOKS, OF OAK POINT, NEW YORK.

SPRAYING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 597,948, dated January 25, 1898.

Application filed July 30, 1897. Serial No. 646,487. (No model.)

To all whom it may concern:

Be it known that I, MOTT BILLINGS BROOKS, a citizen of the United States, residing at Oak Point, in the county of St. Lawrence and State of New York, have invented certain new and useful Improvements in Machines for the Purpose of Forcing Out Air or Spraying Liquids; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

The present invention is for the purpose of producing a cheap and effective device that will supply itself with fluid for a given time and that will eject a fine spray by means of air-pressure, constructed substantially as shown in the drawings, and hereinafter described and claimed.

In the accompanying drawings, Figure 1 represents a sectional elevation of my improved device. Fig. 2 is a horizontal cross-section taken on line Y Y of Fig. 1. Fig. 3 is a vertical section of the cap L separated from the tube A.

In Fig. 1, A designates a metal tube of any desired size supplied on one end with a cap L. Said cap has a deep rim which fits snugly into the end of tube A, or it can be threaded and screwed in, if desired. Said cap has an opening in its center to allow the piston-rod R to slide in and out freely. The cap L has a vent-hole V to allow the air to escape when drawing the piston-rod outward.

The object of the deep rim on cap L is that when the operator removes the piston-rod and packing from the air-chamber B and wishes to return it the rim of cap L is simply shoved over the packing S, which gives it the proper shape so that when the rim is entered into the end of air-chamber B and pressing on handle J the piston-rod and packing enter the air-chamber without let or hindrance.

The piston-rod R has on its end a suitable

packing to fit air-chamber and held in position by the washer W and nuts N N and operated by the handle J.

D is a partition made tight to the inside of tube A.

H is a solid end cap made tight to tube A.

The chamber C between the partition D and end cap H is for fluid.

The chamber B between the partition D and cap L is the air-space.

F is the discharge-pipe; E, nozzle for escape of air; O, opening in tube A to admit air into nozzle E.

The tube A, Fig. 2, has a screw-cap G on the outside and over tank C for filling.

T is a hood fastened to tube A to prevent injury to nozzle E and pipe F.

Fig. 3 represents the cap L with its rim shoved over the packing S and ready to be attached to the end of air-chamber of tube A.

When the piston-rod R is drawn outward and pressed inward by handle J, the air between the partition D and packing S is forced through the opening O and into and out of nozzle E. The force of air against the tube F causes enough of the fluid to ascend in pipe F and form a fine spray.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the cylinder or casing divided by the partition D into the liquid-chamber C an air-chamber B the aperture O the nozzles E, F, and the piston as and for the purpose set forth.

2. The combination with the tube divided into the liquid and air chambers, the piston, the nozzles E, F, and the hood T as and for the purpose set forth.

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Witnesses:

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