

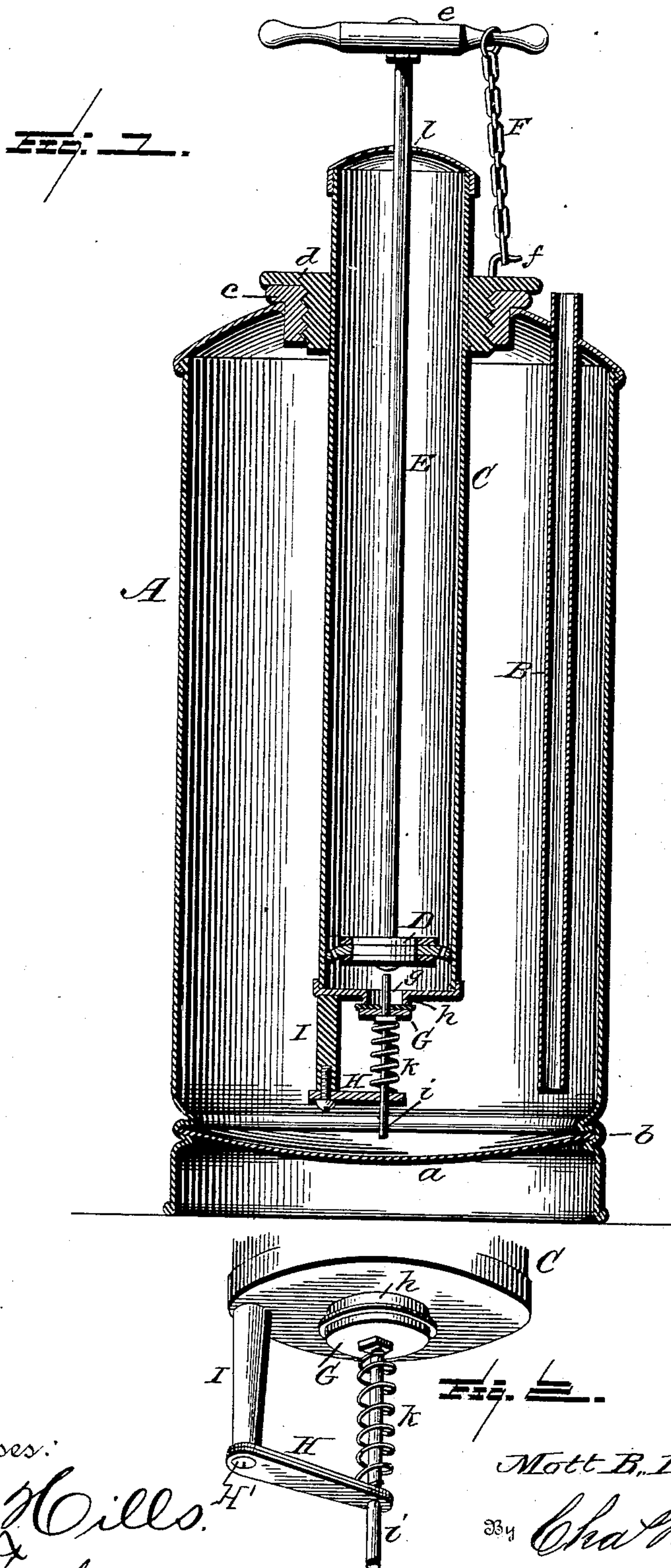
No. 632,801.

Patented Sept. 12, 1899.

M. B. BROOKS.
SPRAYING MACHINE.

(Application filed June 19, 1899.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

MOTT BILLINGS BROOKS, OF ROCHESTER, NEW YORK.

SPRAYING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 632,801, dated September 12, 1899.

Application filed June 19, 1899. Serial No. 721,061. (No model.)

To all whom it may concern:

Be it known that I, MOTT BILLINGS BROOKS, a citizen of the United States, residing at Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Spraying-Machines; 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 has relation to that class of liquid-spraying devices in which a suitable tank or vessel is used and a pump or liquid-forcing apparatus contained therein, whereby the liquid is discharged through a tube or nozzle in the form of spray; and the invention is designed as an improvement upon my former patent, dated April 11, 1899, No. 622,664, as will be hereinafter described, and subsequently set forth in the claims.

Figure 1 of the drawings is a sectional elevation of a spraying-machine constructed in accordance with my invention; Fig. 2, a detail perspective view of the spring-actuated valve and its connections.

In the accompanying drawings, A represents the tank, which may be of any size and shape and has its bottom *a* secured in a circumferential groove *b* at or near the lower end of the tank. A discharge-tube B extends into the tank A to near the bottom thereof and projects up through the top of the tank, which tube may be provided with a suitable hose or other connection for the discharge of the liquid. The top of the tank A has an interior screw-threaded bushing *c*, with which engages a screw-plug *d* of any preferred construction and through which the pump-cylinder C extends. Within the cylinder C works a suitable piston, comprising the piston-head D and piston-rod E, of any well-known and preferred construction. The piston-rod E extends up through the top of the cylinder and is provided with a suitable handle *e*, or in place thereof any convenient form of handle-lever or other well-known means for operating the piston may be provided.

To enable the machine to be conveniently carried by means of the handle or lever without pulling the piston-rod too far up out of the cylinder, a locking device is provided, con-

sisting, preferably, of a suitable chain F, attached to the handle *e* and engaging a hook *f* upon the upper side of the screw-plug *d*. This chain F is released from its hook *f* when the piston is to be operated.

The bottom of the cylinder C has a central opening *g*, around which is a valve-seat *h* for a suitable valve G, said valve being suitably connected to a valve-stem *i*, which loosely passes through a guide-arm H. This guide-arm is removably and adjustably connected to a depending rod I, which is attached to and extends from the under side of the bottom of the pump-cylinder C. The adjustability of the guide-arm H is horizontal and upon the arc of a circle, so as to bring the opening in the outer end thereof on line with the valve-stem *i* when putting the parts together in the manufacture of the machine, said adjustment being attained by the screw connection H'.

The valve G is spring-actuated by means of a coiled spring *k*, which encircles the valve-stem and is located between the valve and the guide-arm.

In the operation of the machine the downward stroke of the piston will draw the air into the cylinder C through the opening *l* at the top thereof, and upon the downward stroke of the piston the check-valve G will be forced open, and the air below the piston-head D will be forced through the opening *g* and with the water or other liquid forced up through the discharge-tube B.

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

1. A spraying device or machine, consisting of a suitable tank, a discharge-pipe communicating with the interior thereof, a pump-cylinder located in the tank, a check-valve and opening at the bottom thereof, a piston operating within the cylinder, and means for locking the piston stationary when not in operation consisting of a flexible connection secured at one end to the handle of the piston and at the opposite end adapted to engage a hook upon the upper end of the machine, substantially as and for the purpose set forth.

2. A spraying device or machine, consisting of a suitable tank, a discharge-pipe communicating with the interior thereof a pump-

cylinder located in the tank, a suitable piston adapted to work in the cylinder, an opening and valve-seat at the lower end of the cylinder, an adjustable guide, a spring-actuated
5 valve, and a valve-stem extending through the guide, substantially as and for the purpose described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

MOTT BILLINGS BROOKS.

Witnesses:

M. H. PERRY,

JAMES H. PERRY.