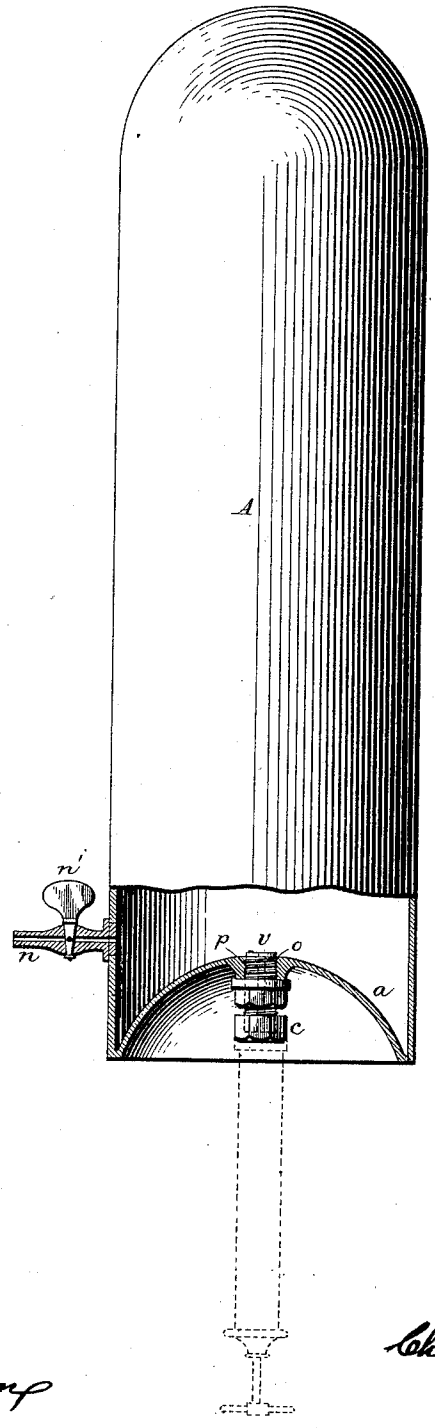
(No Model.)

C. M. MARTIN.

FIRE EXTINGUISHER.

No. 431,950. Patented July 8, 1890.



WITNESSES:

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UNITED STATES PATENT OFFICE.

CHARLES M. MARTIN, OF WASHINGTON, DISTRICT OF COLUMBIA, ASSIGNOR TO THE FIRE-EXTINGUISHER COMPANY OF AMERICA, OF PHILADELPHIA, PENNSYLVANIA.

FIRE-EXTINGUISHER.

SPECIFICATION forming part of Letters Patent No. 431,950, dated July 8, 1890.

Application filed October 11, 1889. Serial No. 326,721. (No model.)

To all whom it may concern:

Be it known that I, CHARLES M. MARTIN, a citizen of the United States of America, residing at Washington, District of Columbia, have invented certain new and useful Improvements in Fire-Extinguishers, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to fire-extinguishers, and especially to that class in which the fire-extinguishing solution is discharged by air-pressure in contradistinction to those in which the solution is discharged by the pressure of gases generated within the cylinder by a mixture of gas-generating agents.

It has for its object to facilitate the charging of the apparatus with the fire-extinguishing compound and with compressed air for discharging the same; and it consists in the construction and arrangement hereinafter described and claimed.

The accompanying drawing, which illustrates my invention and forms a part of this specification, is an elevation, partly in section, of a cylinder or reservoir constructed according to my invention.

A designates the cylinder or reservoir for containing a chemical fire-extinguishing compound. It has two openings or passages—one through the bottom, for the introduction of chemicals and air, and the other through the side wall near the bottom, for the discharge of the extinguishing agent. The bottom *a* is inwardly dished or concave and has a central opening *o* for the introduction into the cylinder of the chemical solution which is to be used as the extinguishing agent. When the cylinder is inverted, the concave bottom serves as a funnel, into which the chemical mixture is poured, and from which it enters the cylinder through the central opening *o*. The opening in the bottom is fitted with a hollow screw-plug *p*, the inner end of which carries a flap-valve *v*. The outer end of the plug *p* projects from the bottom and is screw-threaded for the attachment of an air-pump, (shown in dotted lines,) which may be of any ordinary or preferred construction. The plug *p* is removed for the introduction of the chemical solution, and after the latter has been introduced the plug is screwed into the opening in the bottom and the air-pump is attached. The air-pump being operated, air is forced into the cylinder through the hollow plug *p*, the valve *v* opening for its admission, but closing by the pressure within to prevent its escape. When sufficient air has been pumped in to give the requisite pressure, the air-pump is detached and a protecting screw-cap *c* is screwed upon the plug *p*. When the cylinder after being charged is turned into its proper vertical position, the chemical solution takes its place at the bottom and the air at the top, the latter thus exerting a downward pressure to force the fire-extinguishing compound out through a nozzle *n*, which is fitted to the opening in the side wall near the bottom. This nozzle is provided with a stop-cock *n'* to control and regulate the flow of the solution with which the apparatus is charged.

Having now described my invention, I claim—

1. A fire-extinguisher having an opening in the side wall and discharge-nozzle and a concave bottom integral with the body of the cylinder, said bottom having a central projecting screw-threading boss and a hollow screw-plug fitting said boss and adapted to receive an air-pump, substantially as and for the purpose described.

2. A fire-extinguisher cylinder having an opening in one end, said opening being fitted with a removable hollow screw-plug, the outer end of which projects to permit the attachment of an air-pump, and the inner end of which is provided with an inwardly-opening valve, substantially as described, and for the purposes stated.

3. A fire-extinguisher cylinder having an inwardly-dished or concave bottom in which there is a central opening, said opening being fitted with a removable hollow screw-plug, the outer end of which projects from the bottom to permit the attachment of an air-pump, and the inner end of which is provided with an inwardly-opening flap-valve, substantially as and for the purposes described.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES M. MARTIN.

Witnesses:

WM. HUNTER MYERS,

FRANK B. MARLOW.