A. A. MURPHY.

FIRE EXTINGUISHER.

No. 180,783. Patented Aug. 8, 1876.

Fig. 1.

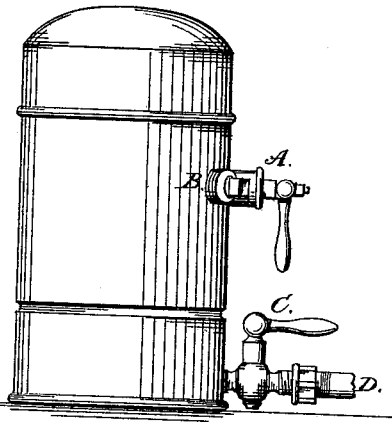
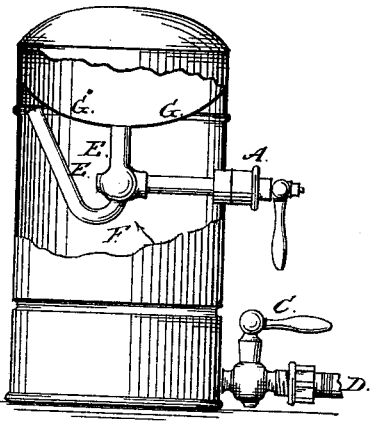
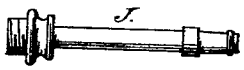


Fig. 2.





WITNESSES

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by Thos. A. Sawyer.

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UNITED STATES PATENT OFFICE.

ALEXANDER A. MURPHY, OF MONTREAL, QUEBEC, CANADA, ASSIGNOR OF PART OF HIS RIGHT TO JOHN TAYLOR AND WILLIAM EDWARD HAYWARD, OF SAME PLACE.

IMPROVEMENT IN FIRE-EXTINGUISHERS.

Specification forming part of Letters Patent No. **180,783**, dated August 8, 1876; application filed February 15, 1876.

To all whom it may concern:

Be it known that I, ALEXANDER ALLEN MURPHY, of the city of Montreal, in the district of Montreal, in the Province of Quebec, in the Dominion of Canada, have invented certain new and useful Improvements in Fire-Extinguishers, the same being an improvement on Patent No. 163,328 granted to Alexander Allen Murphy and Charles Coppin Hearle, and dated May 18, 1875, whereby they may be used for gardening purposes, washing windows, cattle, &c.; and I do hereby declare the following to be a full, clear, and exact description thereof.

My invention consists in an air-tight vessel, divided by a diaphragm into two air-tight compartments, as at G G, in Fig. 2, said compartments being so connected by a tube, E E, that when water is forced into the lower compartment a quantity of air is compressed into the upper compartment through the tube E E, where it is secured by closing the cock F with the handle A. An air-valve, as at B, is then opened, and the water is allowed to run off through the cock C and hose D, after which the air-valve B is closed, and water is again forced into the lower compartment until the lower compartment is half filled, when the cock F is opened, by turning the handle A, and the lower compartment is then filled. The nozzle J is then fastened to the hose D, and the apparatus is ready for future or immediate use.

The double charge of compressed air will be found to eject all the water with force.

In discharging any of the extinguishers, care should be taken to prevent any escape of air through the cock C C. The vessel can be charged again by simply forcing in one charge of water.

I propose to manufacture my improved pneumatic fire-extinguisher of metal of sufficient strength to withstand the required pressure. I also propose to make them of different sizes and shapes.

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

The arrangement of the cock F and tubes E E, whereby the stuffing-box at the handle A with the air-valve B are all placed below the water, and the machine thereby made perfectly air-tight, as hereinbefore set forth.

In testimony that I claim the foregoing as my invention I have hereunto set my hand in the presence of two witnesses.

ALEXANDER ALLEN MURPHY.

Witnesses:

HENRY FRANCIS QUELCH,

ARTHUR HITCHINGS CHAMBERS