C. M. BOWMAN.

FIRE EXTINGUISHER.

APPLICATION FILED SEPT. 15, 1913.

1,119,799. Patented Dec. 8, 1914.

Fig. 1

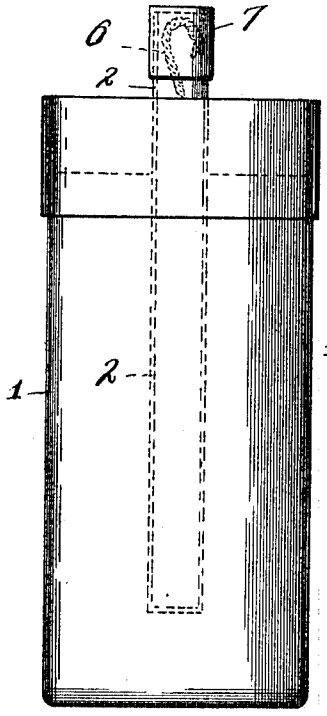


Fig. 2.

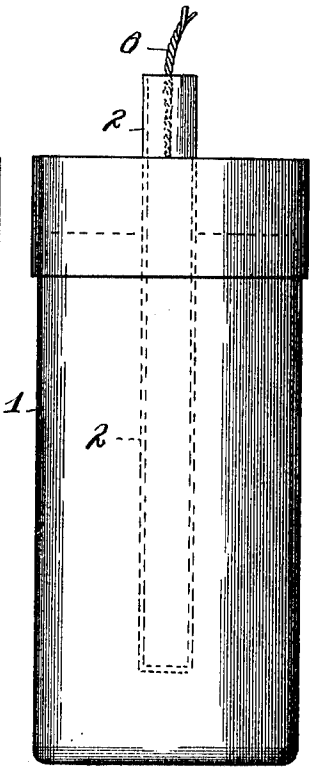
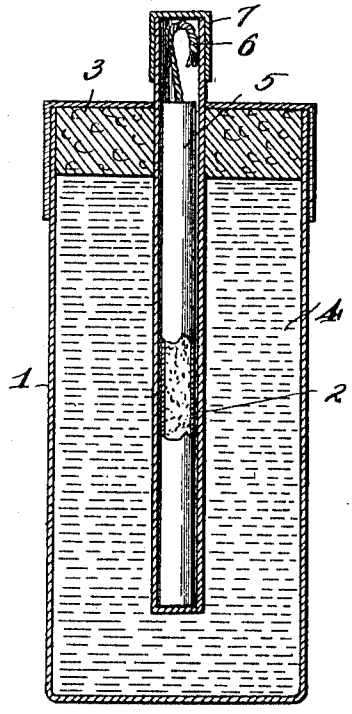


Fig. 3.



Witnesses

G. A. Paulsenschmitt

W. Parker Reinhold

Inventor

C. M. Bowman.

By D. C. Reinhold & Son.

Attorneys.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CHARLES M. BOWMAN, OF LEBANON, PENNSYLVANIA.

FIRE-EXTINGUISHER.

1,119,799. Specification of Letters Patent. Patented Dec. 8, 1914.

Application filed September 15, 1913. Serial No. 789,750.

To all whom it may concern:

Be it known that I, CHARLES M. BOWMAN, a citizen of the United States, residing at Lebanon, in the county of Lebanon and State of Pennsylvania, have invented certain new and useful Improvements in Fire-Extinguishers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to fire extinguishers designed to contain a non-inflammable gas producing liquid or gas which when liberated will extinguish fires.

The invention has for its object economy and security against fire by providing means for extinguishing a fire in its incipient stage.

The invention consists in certain improvements which will be fully disclosed in the following specification and claim.

In the accompanying drawings, which form part of this specification:—Figure 1 is a side elevation of a receptacle for containing a fire extinguishing liquid in condition for handling or shipment. Fig. 2 is a like view showing the cap removed and the fuse exposed, and Fig. 3 is a vertical transverse section of the device.

Reference being had to the drawings and the designating characters thereon, the numeral 1 indicates the body of the receptacle or container, hereinafter called the extinguisher, which may be of any form, preferably tubular, and is designed to be charged with a fire extinguishing liquid, which when released is instantaneously converted into a gas which envelops and smothers or extinguishes fire.

2 indicates an inner member, preferably concentrically arranged within the receptacle 1, is surrounded at its upper end by a body 3, which may be cork or other liquid non-absorbing material, which closely engages the interior of the receptacle 1 and securely positions and holds the member 2 within the said receptacle so that it is surrounded by the liquid 4.

Within the member 2 is a cartridge 5 provided with a fuse 6, which extends to the upper end thereof, and is provided with a cap or closure 7, for protecting the fuse in handling or transportation.

When the extinguisher is placed in position for service the cap 7 is removed to expose the fuse so that it will ignite readily.

The receptacle 1 and the members 2 are made of material fusible at a low degree of temperature, such as gelatin or celluloid, or any of the metals fusible at a low degree of temperature may be used.

The liquid 4 is anhydrous and is instantaneously convertible into a gaseous vapor under a temperature of about 200° Fah. when released, either by the fusing of the container 1 or by its disruption due to the explosion of the cartridge.

The extinguisher is adapted for use anywhere such a device may be found advantageous, for example, under the hoods of automobiles or in other parts of such a machine exposed to danger by fire. It may be suspended on wires over oil tanks, in coal mines, in the holds of ships, or it may be used in factories, business places, homes, in telephone and electric light conduits, and may be supported in many different ways to suit the convenience of the user and the necessities of its use.

Having thus fully described my invention, what I claim is:

A fire extinguisher comprising a receptacle or container made of material impervious to liquid and fusible at a determined temperature, a concentrically arranged member of the same material, within said receptacle, a cartridge within said member and a suitable anhydrous fire extinguishing agent within said receptacle.

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

CHARLES M. BOWMAN.

Witnesses:
J. A. BOWMAN,
W. H. HOLSBERG.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."