No. 786,779. PATENTED APR. 4, 1905.

W. W. SYKES.

FIRE EXTINGUISHER.

APPLICATION FILED APR. 4, 1904.

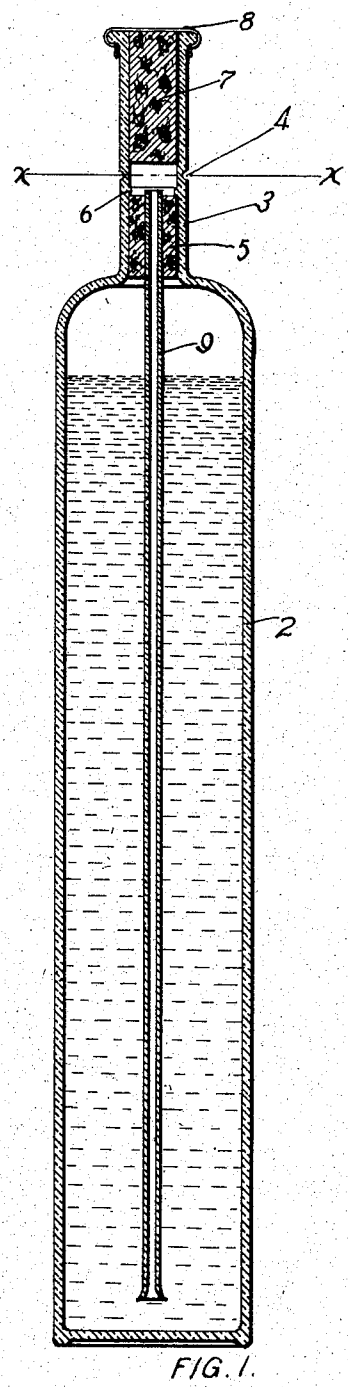


FIG. 1.

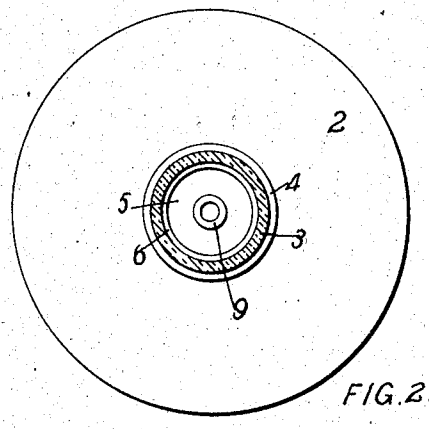


FIG. 2.

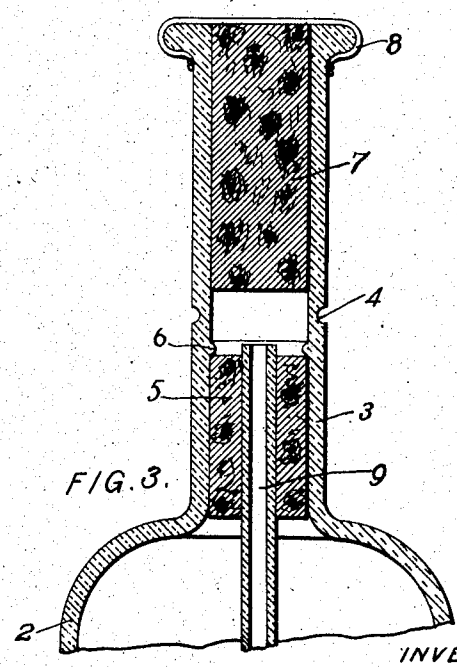


FIG. 3.

WITNESSES

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No. 786,779. Patented April 4, 1905.

UNITED STATES PATENT OFFICE.

WILLIAM W. SYKES, OF MINNEAPOLIS, MINNESOTA, ASSIGNOR, BY MESNE ASSIGNMENTS, OF ONE-HALF TO HENRY L. CARPENTER, OF MINNEAPOLIS, MINNESOTA.

FIRE-EXTINGUISHER.

SPECIFICATION forming part of Letters Patent No. 786,779, dated April 4, 1905.

Application filed April 4, 1904. Serial No. 201,406.

To all whom it may concern:

Be it known that I, WILLIAM W. SYKES, of Minneapolis, Hennepin county, Minnesota, have invented certain new and useful Improvements in Fire-Extinguishers, of which the following is a specification.

My invention relates to fire-extinguishers, and particularly those of the hand type.

The object of my invention is to provide a fire-extinguisher of simple economical construction and one that will be positive and reliable in its action.

A further object is to provide an extinguisher which can be easily and quickly made ready for use and can be held in one hand, if desired, while being discharged.

Further objects of the invention will appear from the following detailed description.

The invention consists generally in a charged receptacle having a neck provided with a weakened area, plugs closing said neck upon each side of said area, and a tube communicating with said receptacle and with the space between said plugs.

In the accompanying drawings, forming part of this specification, Figure 1 is a vertical section of a fire-extinguisher embodying my invention. Fig. 2 is a section on the line x x of Fig. 1. Fig. 3 is an enlarged detail view of the top of the receptacle.

In the drawings, 2 represents a bottle-shaped glass receptacle having a neck 3, provided at a point preferably about midway between the shoulder of the bottle and the outer end of the neck with an annular groove 4, which weakens the neck sufficiently to cause breakage at that point when the outer end is struck a quick sharp blow. A plug or stopper 5 is fitted within the neck below the groove 4 and is prevented from being accidentally forced out of place by an annular rib 6. A second plug or cork 7 is provided in the neck above the groove 4 and is preferably secured by the usual wiring means 8. A space is formed between the contiguous ends of the plugs or corks, and a tube 9 leads from said space through the inner cork to a point near the bottom of the bottle.

The bottle is filled in the usual way with water charged with carbonic-acid gas at any suitable pressure. In case of fire the person using the extinguisher grasps it with one hand, knocks off the upper portion of the neck across the edge of a chair, table, or other convenient object, holding the bottle as a Roman candle is usually held in the hand, and directs the stream of charged liquid upon the fire. A large percentage of the gas will follow the liquid and aid materially in extinguishing the flames.

The liquid in the bottle can be placed under any desired pressure, according to the strength of the receptacle, and the device will always be ready for use, it being only necessary to knock off the top of the neck to release the entire charge of the bottle.

I claim as my invention—

1. As a new article of manufacture, a receptacle having a neck provided with a weakened area, means closing said neck upon each side of said area, and a tube communicating with said receptacle and with the space between said closing means.

2. As a new article of manufacture, a bottle having a neck provided with an annular groove therein, plugs provided in said neck above and below said groove, and a tube communicating with the interior of said bottle and with the space between said plugs, for the purpose specified.

3. As a new article of manufacture, a bottle adapted to contain a liquid under pressure and provided with a neck having a weakened area, a rib below said area, plugs closing said neck above and below said area and rib, and a tube communicating with the interior of said bottle and the space between said plugs.

4. As a new article of manufacture, a bottle adapted to contain a charged liquid and having a neck provided with a weakened area, closing means for said neck above and

below said area, and a tube communicating with the interior of said bottle and extending partially through said closing means.

5. As a new article of manufacture, a bottle adapted to contain liquid under pressure and having a neck provided with a weakened area, a stopper closing said neck below said area, and a tube communicating with the interior of said bottle and extending through said stopper.

In witness whereof I have hereunto set my hand this 31st day of March, 1904.

WILLIAM W. SYKES.

In presence of—
M. HAGERTY,
C. G. HANSON.