C. A. TRANTHAM.

FIRE EXTINGUISHER.

APPLICATION FILED MAY 23, 1919.

1,365,356. **Patented Jan. 11, 1921.**

Fig. 1.

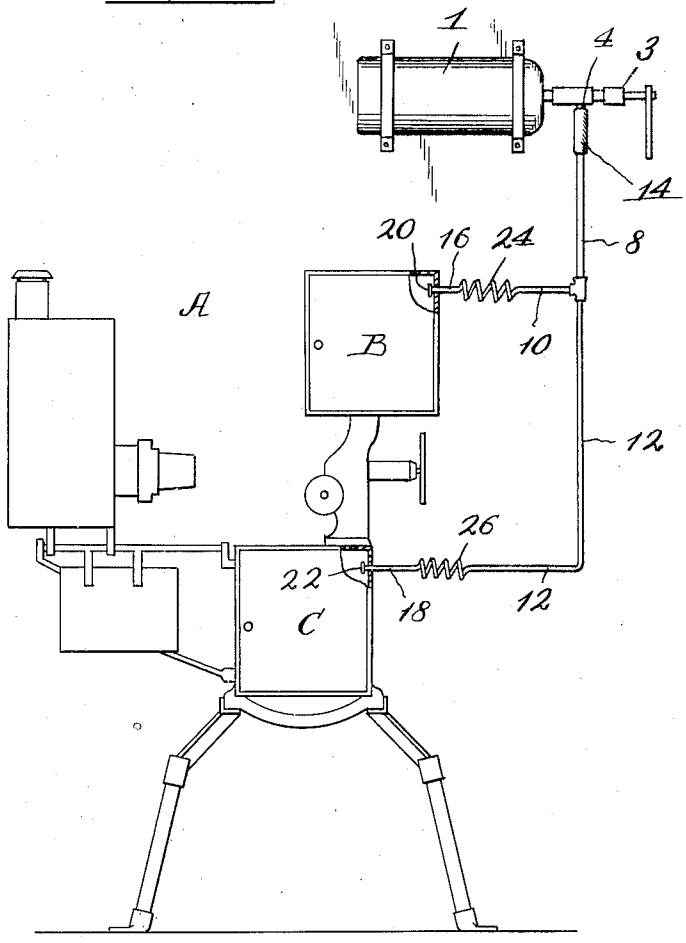
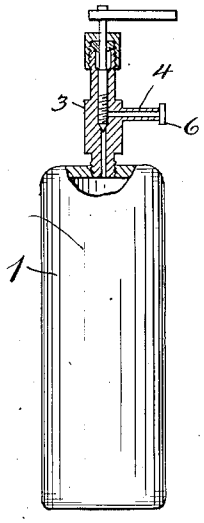


Fig. 2.



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UNITED STATES PATENT OFFICE.

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FIRE-EXTINGUISHER.

1,365,356. Specification of Letters Patent. Patented Jan. 11, 1921.

Application filed May 23, 1919. Serial No. 299,244.

To all whom it may concern:

Be it known that I, CLYDE A. TRANTHAM, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Fire-Extinguishers, of which the following is a specification.

My invention relates to fire extinguishers and embodies a container supplied with a gas under pressure having chemical properties to quickly extinguish a fire.

In its simplest form the invention embodies a container supplied with the gas and provided with an outlet which is sealed with a fuse adapted to melt at a predetermined pressure. Said container may be installed directly within or upon articles in which a fire is likely to occur, such for instance, as magazines, vaults, booths, etc., containing motion picture films and other combustible material.

The gas may be in a liquid, dry, or vaporous state as preferred.

In order that the invention may be fully understood, reference will now be made to the accompanying drawings, in which:

Figure 1 shows a side elevation of the apparatus applied to a motion picture projection machine.

Fig. 2 is a broken elevation partly in section of the container.

A designates a motion picture projection machine equipped with the usual film magazines B and C.

1 designates a tank or container adapted to hold gas under the desired pressure. Said container 1 is provided with a needle valve 3 and a short pipe 4, through which it may be charged or discharged as preferred. Said container 1 may be located at any convenient point and if desired, when used in connection with motion picture projection machines one container may be connected directly to each film magazine through the intermediacy of the pipes 4, which may project into the interior of the magazines and have their terminals sealed with fuses 6 adapted to melt at any predetermined temperature.

In its more extensive form the invention may embody only one container, which may be connected to the magazines B and C through distributing tubes 8, 10 and 12. The tube 8 may be connected to the pipe 4 of the container by suitable means, such as a short piece of hose 14.

The tubes 10 and 12 have discharge nozzles 16 and 18 projecting into the magazines B and C and sealed with fuses 20 and 22, respectively. Resilient coils 24 and 26 are formed in the tubes 10 and 12 to allow said tubes to yield with any slight movement of the magazines B and C, respectively.

In practice the valve 3 is normally left open, so that in case the films in the magazines B and C should be set afire the resultant heat would melt the fuses 20 and 22 and allow the gas to discharge from the nozzles 16 and 18 and extinguish the fire. If desired other distributing tubes may be run to other portions of the projection machine.

The container 1 can also be carried to advantage on fire department apparatus and used as a hand fire extinguisher by removing the fuse 6 from the pipe 4 and substituting a short hose for directing the gas to any desired point after the needle valve 3, has been opened.

Gas in a dry state is, preferably, employed, as it will extinguish a fire without damaging any of the contents of the building. Neither will it damage picture films or any portion of the projection machine with which it may come into contact.

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

In combination with a motion picture projection machine having a plurality of film magazines, an apparatus consisting of a container having a supply of gas under pressure and provided with a valve controlled outlet, a distributing tube leading from said outlet and provided with branches leading into the film magazines, a resilient coil formed in each branch to permit limited movement of the magazines, and fusible means sealing the discharge ends of said branches.

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

CLYDE A. TRANTHAM.

Witnesses:

F. G. FISCHER,

L. J. FISCHER.