

(No Model.)

H. S. PARMELEE.
AUTOMATIC FIRE EXTINGUISHER.

No. 250,963.

Patented Dec. 13, 1881.

Fig. 1.

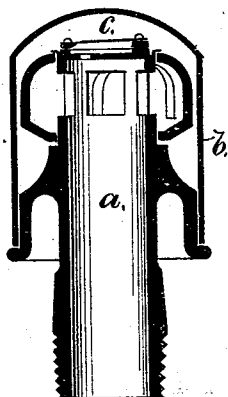


Fig. 2.

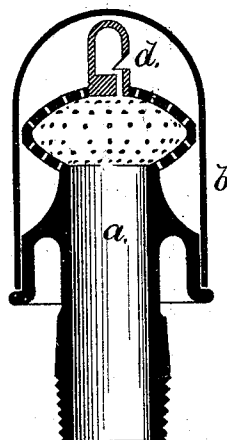
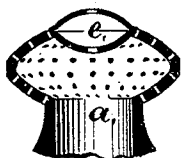


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

HENRY S. PARMELEE, OF NEW HAVEN, CONNECTICUT.

AUTOMATIC FIRE-EXTINGUISHER.

SPECIFICATION forming part of Letters Patent No. 250,963, dated December 13, 1881.

Application filed May 23, 1881. (No model.)

To all whom it may concern:

Be it known that I, HENRY S. PARMELEE, of the city and county of New Haven, State of Connecticut, have invented a new and useful Improvement in Automatic Fire-Extinguishers; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

This invention has reference to an attachment to automatic fire-extinguishers, by means of which an alarm is sounded as soon as, by the action of heat, a distributor is opened.

The invention consists in providing the distributor with a whistle, a reed, or other device which will produce a sound by the outrushing of air.

In any system for extinguishing fire automatically it is important to call attention to the fire by an alarm, and in large manufacturing establishments it is important to warn the employes when a fire breaks out in any part. When a system of pipes extends over a large building provided with automatic fire-extinguishers, such pipes are preferably filled with air instead of water. This air is usually maintained under pressure, and when one of the automatic fire-extinguishers is released the air contained in the pipes, or at least a large portion of the air, must escape through the extinguisher before the water can be discharged. The present invention takes advantage of this outrushing of air to sound an alarm.

Figure 1 is a sectional view of an automatic fire-extinguisher provided with a reed, by which an alarm is sounded when the air vibrates the reed. Fig. 2 is a sectional view of an automatic fire-extinguisher provided with a whistle, and Fig. 3 represents a perforated distributor provided with a whistle or call.

In the drawings, *a* represents the distributor, which may be made of any suitable form.

b is a cap extending over the distributor, and is secured by solder, so as to form an air-tight

seal, by which the air is retained in the system until the cap is released by the action of heat on the solder. Any other of the various devices for holding the air in the system until a fire releases the same may be used with this improved alarm.

c, *d*, and *e* are three forms of alarms. *c* is a reed which is vibrated by the outrushing air, and sounds an alarm as long as the air is discharging.

d is a whistle placed on the distributor, and *e* is a call made by perforating two concave disks, as shown. Various other sound-producing devices may be placed on the distributors, or on any portion of the system of pipes, and provided with any of the well-known devices by which the air is released when a fire occurs, and thus an alarm is sounded. I prefer the cap *b*, as it not only forms a perfect seal, but protects the device against dust and injury.

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

1. An automatic fire-alarm, consisting of a wind-instrument covered by a cap secured by a material fusible at a low temperature, so as to form an air-tight seal, and constructed to be released by the action of heat and sound an alarm, as described.

2. The combination, with a distributor of an automatic fire-extinguisher, of a device attached thereto, and constructed to sound an alarm by the released air, as described.

3. The combination, with a distributor, of a cap secured by a material fusible at a low temperature, and an alarm constructed to be sounded by the air which is forced from the pipes by water when the cap is released by the action of heat, as described.

HENRY S. PARMELEE.

Witnesses:

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