

H. L. BROWN.
Automatic Fire-Alarms.

No. 139,292.

Patented May 27, 1873.

Fig. 1

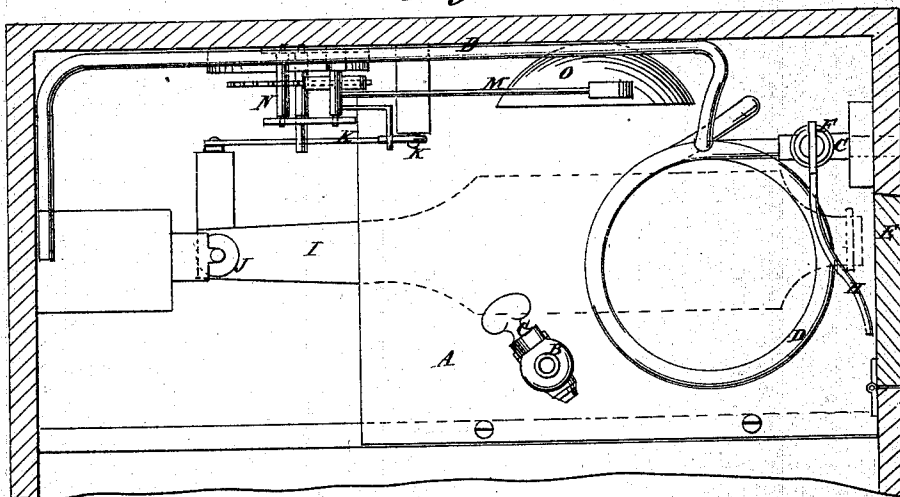
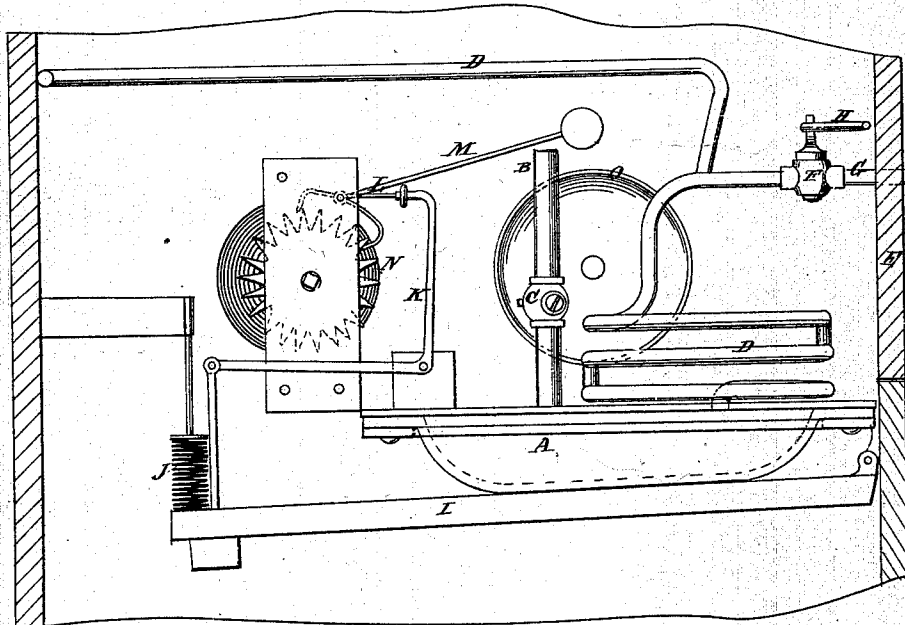


Fig. 2



Witnesses:

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UNITED STATES PATENT OFFICE.

HENRY L. BROWN, OF MIDDLETOWN, CONNECTICUT.

IMPROVEMENT IN AUTOMATIC FIRE-ALARMS.

Specification forming part of Letters Patent No. **139,292**, dated May 27, 1873; application filed March 15, 1873.

To all whom it may concern:

Be it known that I, HENRY L. BROWN, of Middletown, in the county of Middlesex and State of Connecticut, have invented a new and Improved Fire and Burglar Alarm, of which the following is a specification:

The invention consists in the improvement of fire-alarms, as hereinafter described and pointed out in the claim.

I propose to have a small tube of lead, or other substance easily destroyed by fire, running throughout the building where it will be exposed and burn off in case of fire in the building, and connecting with a collapsible air-holder, inflated and connected with a lever and a spring, so that when the tube is burned and the air escapes the spring will move the lever and cause it to release a bell-hammer of an alarm mechanism to allow it to be set in motion by its actuating spring to sound an alarm.

Figure 1 is a plan view of the apparatus, illustrating my invention. Fig. 2 is an elevation.

Similar letters of reference indicate corresponding parts. A is a collapsible air-holder with a pipe, B, for inflating it by air forced in by a pump or other means and having a cock,

C, for securing the air. D is the pipe of lead, or other fusible substance, connected with the holder, and arranged throughout the building where it will be most exposed to fire. I is a lever connected with the holder, so that when it is inflated the spring J will be extended. K is a detent connected with said lever and arranged with an arm, L, of a bell-hammer of an alarm mechanism, N, that when the holder is inflated it will engage said arm and prevent the mechanism from breaking, and when the air escapes the spring will collapse the holder and withdraw the detent from the arm L, and release the alarm mechanism so that the bell-hammer will strike the bell O and sound the alarm.

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

The combination of a collapsible air-holder, a lead or other fusible pipe, D, a lever, I, a spring, J, a detent, K, and an alarm mechanism, substantially as specified.

HENRY L. BROWN.

Witnesses:

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