

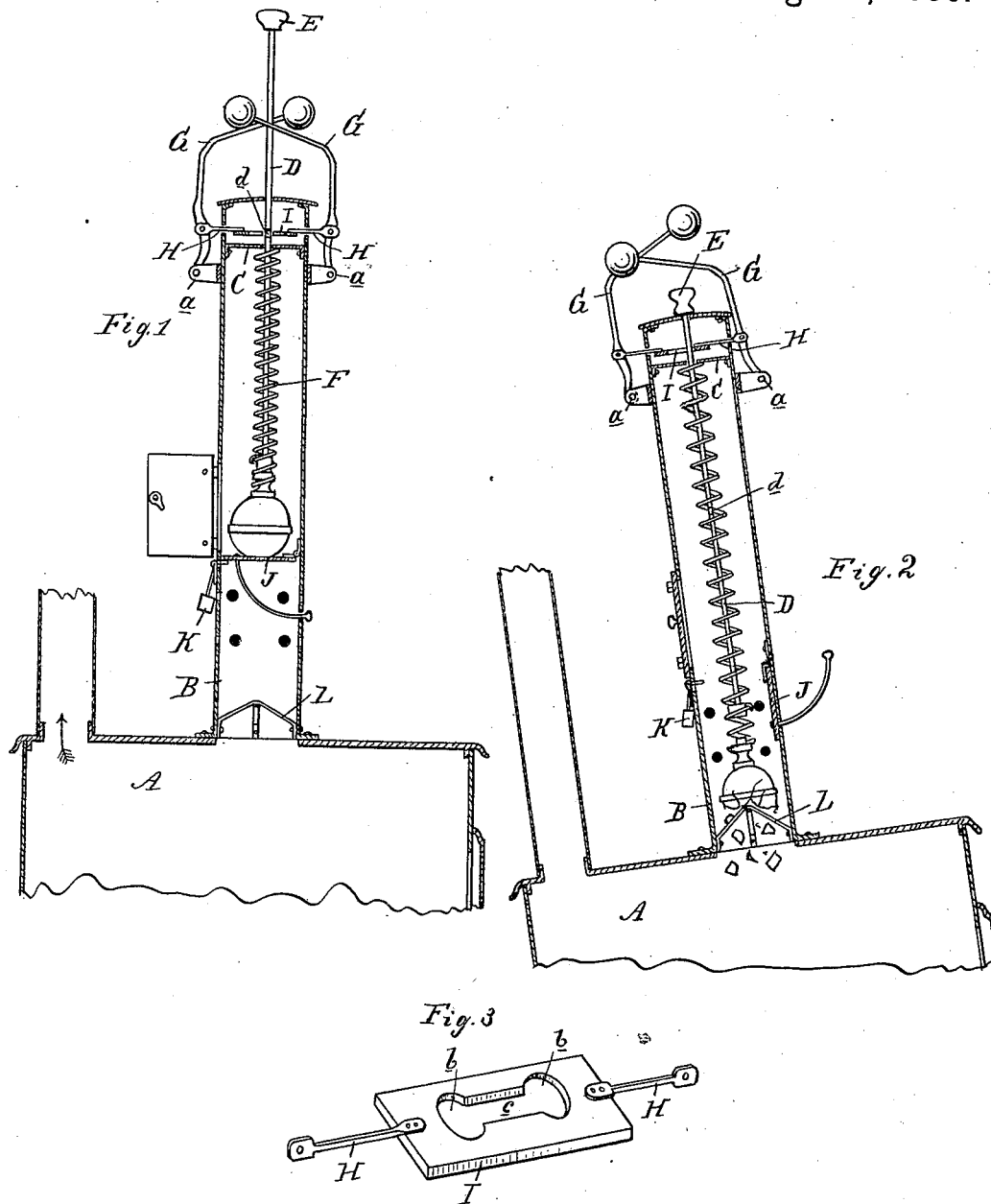
(No Model.)

D. ROSEBUSH.

AUTOMATIC FIRE EXTINGUISHER.

No. 348,140.

Patented Aug. 24, 1886.



Attest:
John Schuman.
E. Scully.

Inventor:
David Rosebush.
by his Atty
Thos. J. Sprague

UNITED STATES PATENT OFFICE.

DAVID ROSEBUSH, OF EAST SAGINAW, MICHIGAN, ASSIGNOR OF TWO-THIRDS TO JOHN J. RUPP, OF SAME PLACE.

AUTOMATIC FIRE-EXTINGUISHER.

SPECIFICATION forming part of Letters Patent No. 348,140, dated August 24, 1886.

Application filed April 8, 1886. Serial No. 198,213. (No model.)

To all whom it may concern:

Be it known that I, DAVID ROSEBUSH, of East Saginaw, in the county of Saginaw and State of Michigan, have invented new and useful Improvements in Automatic Fire-Extinguishers; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to certain new and useful improvements in automatic fire-extinguishers, especially designed to be attached to stoves in railway-cars, the object of the invention being to construct a device that will automatically prevent the occurrence of fire by the upsetting of cars; and to that end the invention consists in the arrangement of a detent, which is automatically disengaged by the movement of the car in falling over, and which breaks or discharges the fire-grenade, all as more fully hereinafter set forth.

Figure 1 is a vertical central section showing the device as attached to a stove, and with the grenade secured in place. Fig. 2 is a similar view showing the position of the parts after the grenade has been discharged. Fig. 3 is a detailed perspective.

In the accompanying drawings, which form a part of this specification, A represents a heating-stove, in the top of which is formed a suitable opening, over which the jacket B of my extinguishing device is rigidly secured, such jacket preferably being made of sheet metal. Near the upper end of the casing B, and within the same, is secured a guard, C, through which the plunger D operates, the upper end of the plunger passing through the top of the case, and having secured to it a knob or handle, E. Around the lower end of the plunger is secured a spring, F.

G are weighted levers pivotally secured upon opposite sides of the case, between the ears a, and to each of these levers is pivotally secured a rod, H, which passes through its respective side wall of the case B, the inner end of each rod H being secured to a plate, I, through which the plunger D operates. In this plate I are formed two circular openings, b, connected by a slot, c, said slot being de-

signed to engage with a notch or notches, d, in the plunger-rod.

J is a trap-door pivotally hung within the case, its free end being designed to be held in a horizontal position by the weighted stop or detent K. In the bottom of the casing is secured a spider, L.

In practice, the parts being constructed substantially as shown, the plunger D is retracted, compressing the spring between the lower end of the plunger and the guard C, the plunger being retracted until the levers G can be adjusted in the position shown in Fig. 1, or substantially so, with the slot c of the plate I engaging with the notches d in the plunger, thus retaining such plunger in its retracted position with the spring compressed. The trap-door J is closed into a horizontal position, as shown, and a fire-grenade is placed upon such trap-door, with its neck inserted in the lower end of the spring.

Under all ordinary movements of the car in which this stove may be located the parts will retain the position shown in Fig. 1; but in case of accident, and the car should fall over on its side, one of the weighted levers will withdraw the plate I from its engagement with the plunger, when the expansion of the spring will push the grenade down upon the trap-door, open it, and forcibly project the grenade against the spider in the bottom of the casing, where its contents will have easy access to the fire within the stove and extinguish the same, thereby preventing the burning of the car, even should some of the contents of the stove fall out.

A suitable door-opening should be made in the side of the case, through which the grenade can be inserted, and in the case, below the trap-door, is made a series of openings, through which the heat may escape into the car, and thus prevent any overheating of the grenade.

What I claim as my invention is—

1. In a fire-extinguisher of the character described, the combination of a case, a spring-actuated plunger, a fire-grenade carried thereby, a retainer for said plunger and grenade, and the levers G G, pivoted to said case and connected with said retainer, substantially as and for the purpose specified.

2. In a fire-extinguisher of the character described, the combination, with the spring-actuated plunger, the fire-grenade, the case, and retainer for said plunger, of the weighted levers
5 G G, pivoted to said case, and the arms H H, connecting said levers with the retainer, substantially as and for the purpose specified.

3. The combination, with the case B, the fire-grenade, and the spring-actuated plunger
10 D, working therein, of the plate I, working in guides in said case, and the weighted levers G G, pivoted to the sides of said case and connected with said plate, substantially as described, and for the purpose specified.

15 4. In a fire-extinguisher of the character described, the combination, with the case B, the fire-grenade, the guard C, and spring-actuated

plunger D within said case, of the plate I, levers G G, pivoted upon opposite sides of said case, the rods H, connecting said levers and
20 plate, the trap-door J, and weighted detent K, all substantially as described, and for the purposes specified.

5. The combination, with the case B, the fire-grenade, and the spring-actuated plunger
25 D, provided with notch *d*, of the plate I, provided with circular openings *b b*, connected by a slot, *c*, and the levers G G, pivoted to said case and connected with said plate, substantially as and for the purposes specified.

DAVID ROSEBUSH.

Witnesses:

FRED P. BREWER,
H. NIENSTEDT.