

G. Heydrich.

Fire Escape.

N^o 27,127.

Patented Feb. 14, 1860.

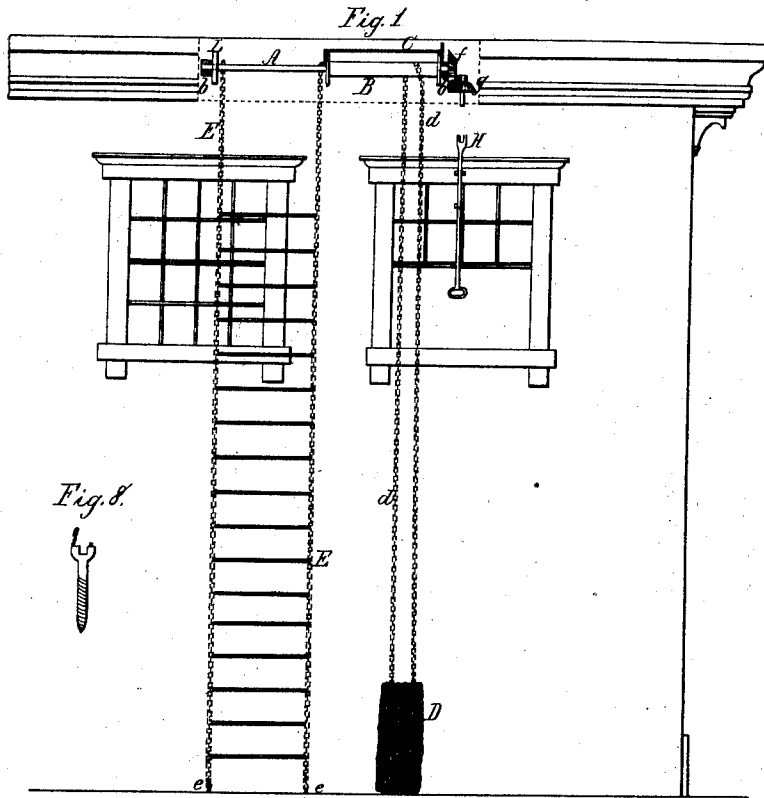


Fig. 8.



Fig. 7.

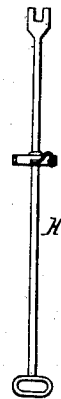


Fig. 9.

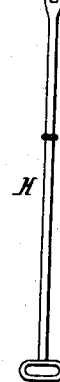


Fig. 2.

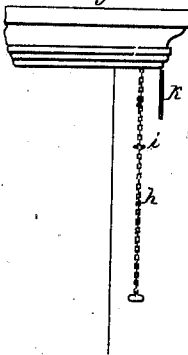


Fig. 3.

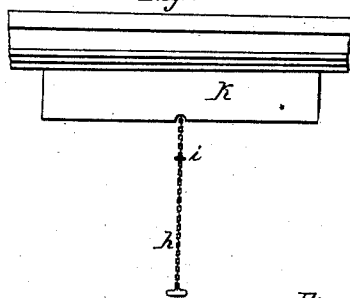


Fig. 10.



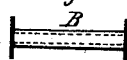
Fig. 6.



Fig. 4.



Fig. 5.



Witnesses

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FIRE-ESCAPE.

Specification of Letters Patent No. 27,127, dated February 14, 1860.

To all whom it may concern:

Be it known that I, GUSTAV HEYDRICH, of the city of Philadelphia and State of Pennsylvania, have invented a new and Improved
5 Apparatus for Saving Lives and Property in Case of Fire; and I do hereby declare the following to be a full, clear, and exact description of the construction and operation of the same, reference being had to the ac-
10 companying drawings and to the figures and letters of reference marked thereon.

The nature of my invention consists in the employment of a shaft and drum having bearings permanently fixed inside of the
15 cornice of buildings and upon which a rope or chain ladder may be wound and thus always kept free from injury when not in use, while in case of danger from fire inside of the building it shall be easily accessible
20 from the windows and the rope or chain ladder unwound for the purpose of reaching the ground outside of the building. It is further provided with a means of preventing burglars from using the same for gain-
25 ing access to the building, consisting of a well protected alarm in the form of a ratchet wheel and spring or their equivalents.

To enable others skilled in the art to make and use my invention I will now proceed to
30 describe its construction and operation.

On reference to the drawing forming part of this specification and in which similar letters of reference allude to similar parts throughout the several views: Figure 1 is an
35 elevation of a building with my improved apparatus attached. Figs. 2 and 3 are detached views of the cornice containing the apparatus. Figs. 4, 5 and 6 are detached views of the barrel and shaft, and Figs. 7,
40 8 and 9 illustrate the arrangement for operating the latter. Fig. 10 shows the alarm wheel and spring.

A is a shaft resting in the bearings *b, b*, secured inside of the cornice of the build-
45 ing. It is provided with a drum B, which is confined inside of the fly C and serves to receive an endless wire rope or chain *d* to

which is attached the basket D. The drum B is loose on A, whereby it is permitted to follow the motion of chain *d*, when the latter
50 is brought into action, the shaft A being, on account of its connection with other parts (hereafter described) required to remain idle. To the shaft A is further secured the
55 chain or rope ladder E, the opposite end of which, when unwound may be hooked to eyebolts *e e* provided for the purpose. The means for operating the shaft A consist in the bevel wheels *f* and *g* and a key H fitted
60 to a square on the axle of the latter and so placed as to be in convenient reach from the window. One side of the ladder E is provided with an extension *h*, having a knot *i*
65 attached for the purpose of pulling open the door K on the under side of the cornice, when the apparatus is required. The fly C serves to wind up the endless chain *d*. L is an internal ring or wheel, secured to the
70 cornice and into the teeth of which click the ends of spring *m* on the end of the shaft A. It will be easily seen, that the unwinding of the ladder or chain is impossible without the noise produced by this device, which there-
75 fore effectually prevents the application of the apparatus by burglars for gaining access to the building.

Having now described the nature of my invention, I wish it to be understood that I do not desire to confine myself to the de-
80 scribed construction and operation of the various parts in every minutia, but

What I claim and desire to secure by Letters Patent is:

The described apparatus for saving lives and property in cases of fire, when the same
85 is permanently attached to the cornice of the building and constructed and operating substantially in the manner and for the purpose set forth.

GUSTAV HEYDRICH.

Witnesses:

MARTIN KOHLER,
FR. KUEHN.