W. GUTHRIE.
FIRE-ESCAPE.

No. 192,758. Patented July 3, 1877.

Fig. 1.

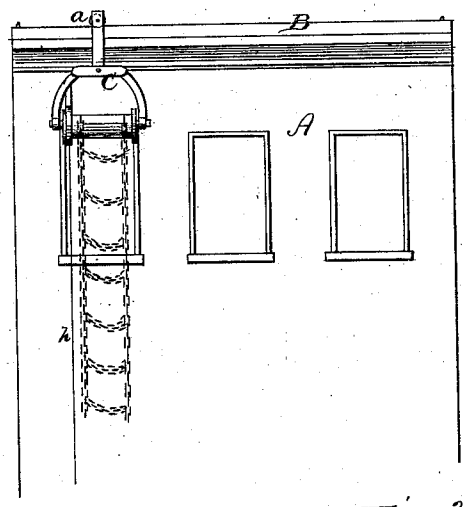


Fig. 2.

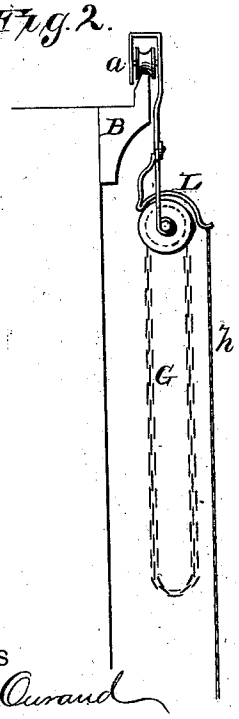
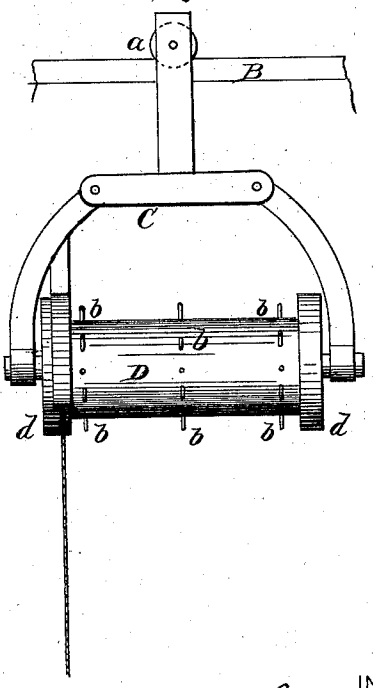


Fig. 3.



WITNESSES
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WARDELL GUTHRIE, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF HIS RIGHT TO EDWIN O. LAMPHERE, OF SAME PLACE.

IMPROVEMENT IN FIRE-ESCAPES.

Specification forming part of Letters Patent No. **192,758**, dated July 3, 1877; application filed May 17, 1877.

To all whom it may concern:

Be it known that I, WARDELL GUTHRIE, of Chicago, in the county of Cook, and in the State of Illinois, have invented certain new and useful Improvements in Fire-Escapes; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a fire-escape, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a front elevation of a building with my fire-escape applied thereto. Fig. 2 is a side view of the same. Fig. 3 is an enlarged front view of the fire-escape carriage and drum.

A represents the front wall of a dwelling-house or other building, at the top of which, or at any point desired, is permanently attached a horizontal rail or track, B, extending the entire length of the building.

On this rail is hung a frame or carriage, C, by means of one or more grooved wheels, *a*, placed thereon.

In the frame C is mounted a drum, D, provided with series of short spikes or teeth, *b*, projecting from it, and at each end it has a flange, *d*, as shown.

Around this drum is placed an endless chain ladder, G, of suitable length to reach to the ground, the links of said chain ladder taking into the pins or teeth *b* on the drum.

L is a spring-brake attached to the frame C, and pulled by means of a cord, *h*, to act on one of the flanges *d* of the drum.

The fire-escape thus constructed can be easily and quickly moved along the front of the building to any point where needed, and a person stepping out of any window can be easily and safely landed on the ground, the speed of the descent being regulated by the brake L, the person descending having nothing to do but to regulate the brake. He does not even have to step from one round of the ladder to another, and when he reaches the ground the ladder is just as ready for another person to descend.

This fire-escape is simple in construction, easily manipulated, and not liable to get out of order.

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

1. A movable carriage suspended on a stationary track attached to a building, and the carriage provided with a rotating spiked or toothed drum, having an endless chain ladder placed around the same, substantially as and for the purposes herein set forth.

2. The combination of the flanged drum D, provided with the spikes or teeth *b*, the brake L, and the endless chain ladder G, with the movable carriage C, suspended by one or more wheels, *a*, on the stationary track B, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 17th day of May, 1877.

WARDELL GUTHRIE.

Witnesses:

FRANK GALT,

HENRY N. MILLER.