

D. A. SCOTT & A. W. HILTZ.

Fire-Escapes.

No. 144,361.

Patented Nov. 4, 1873.

Fig. 1

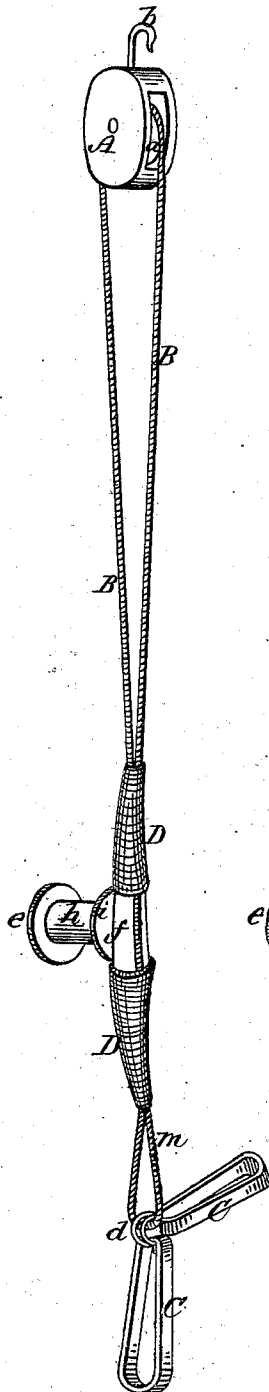
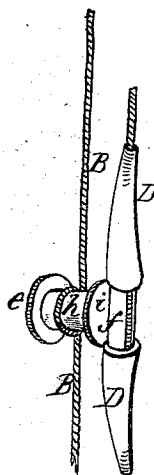


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

DANIEL A. SCOTT AND ARTHUR W. HILTZ, OF CALAIS, MAINE, ASSIGNORS
TO PATRICK CURRAN AND EDWARD CURRAN, OF MILLTOWN, NEW
BRUNSWICK, AND MARIA LOUISA WHITNEY AND ARTHUR W. HILTZ,
OF CALAIS, MAINE.

IMPROVEMENT IN FIRE-ESCAPES.

Specification forming part of Letters Patent No. **144,361**, dated November 4, 1873; application filed
June 23, 1873.

To all whom it may concern:

Be it known that we, DANIEL A. SCOTT and ARTHUR W. HILTZ, of Calais, in the county of Washington and State of Maine, have invented certain new and useful Improvements in Fire-Escapes; and we do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon.

The nature of our invention consists in the construction and arrangement of a fire-escape composed of a block, endless rope, rendering-pin, and safety-belt, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawing, which forms a part of this specification, and in which—

Figure 1 represents a perspective view of our fire-escape. Fig. 2 represents the rope coiled around the shank of the rendering-pin to regulate the speed of the descent.

A represents an ordinary block, with interior pulley *a* and a hook, *b*, which is to be attached to a staple or other convenient place inside of a window. Through this block, over the pulley *a*, passes the endless hoisting-rope B, which may be of any length desired, and has the safety-belt C attached to it by means of a ring, *d*, at each end of the belt, through which the rope passes. D represents what we call the "rendering-pin," composed of a shaft, *f*, a shank, *h*, with head *e*, and shoulder *i*. The shaft *f* is secured in any suitable manner,

throughout its entire length, to the endless hoisting-rope, so that it cannot, by any possible means, slip on the rope. The shank *h* extends outward from the middle of the shaft *f*, and the head *e* is formed on the outer end of the shank and the shoulder *i* at the base, as shown. A part of the rope B is further attached to the lower end of the rendering-pin, forming a small loop, *m*, in which the safety-belt C is supported by its rings *d d*.

The block A being suspended, as above described, inside of the window, the rendering-pin and safety-belt are hoisted up, and the belt placed under the arms of the person about to descend. The rope B from the other side of the block is then turned once around the shank of the rendering-pin. The person descending can then, with one hand, regulate the speed of the descent, and, if necessary, can hold another person with the left arm; or the descent can be regulated by some one else on the street below.

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

The within-described fire-escape, consisting of the block A, endless rope B, safety-belt C, and rendering-pin D having the shank *h*, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony whereof we have hereunto signed our names.

DANIEL A. SCOTT.
ARTHUR W. HILTZ.

Witnesses:

F. C. SMITH,
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