T. A. ANDREWS.

FIRE-ESCAPES.

No. 193,841. Patented Aug. 7, 1877.

Fig. 1.

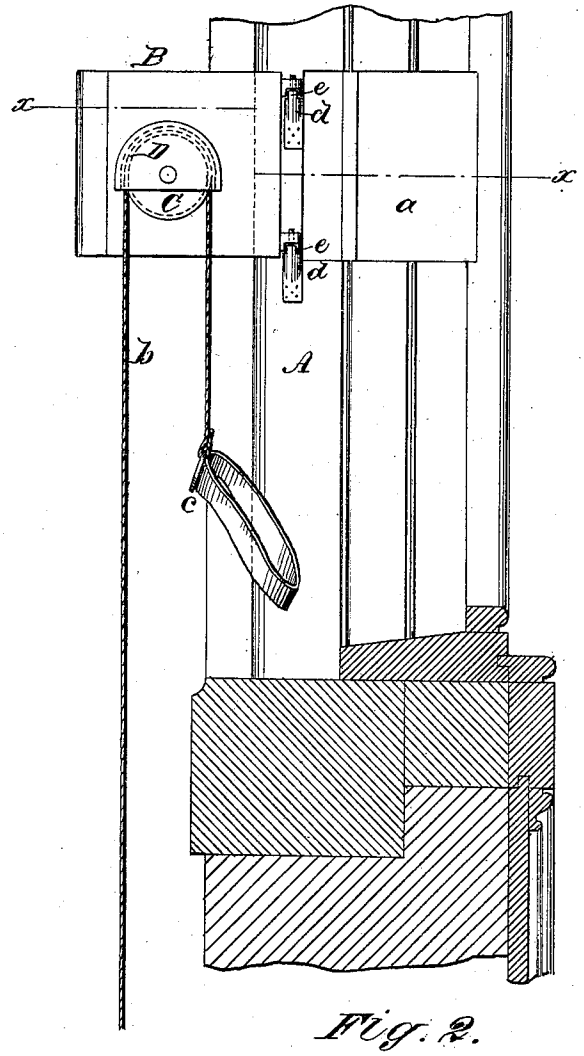
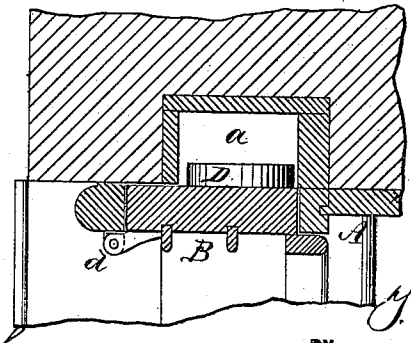


Fig. 2.



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UNITED STATES PATENT OFFICE.

THOMAS A. ANDREWS, OF GAINESVILLE, TEXAS.

IMPROVEMENT IN FIRE-ESCAPES.

Specification forming part of Letters Patent No. **193,841**, dated August 7, 1877; application filed June 18, 1877.

To all whom it may concern:

Be it known that I, THOMAS AUGUSTUS ANDREWS, of Gainesville, in the county of Cook and State of Texas, have invented a new and Improved Fire-Escape, of which the following is a specification:

Figure 1 is a plan view. Fig. 2 is a horizontal section on line *x x* in Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of my invention is to provide a simple and inexpensive fire-escape, that cannot get out of repair, and that is always ready for use.

In the drawings, A is the pulley-stile of a window-frame, in which is formed a receptacle, *a*, for the rope *b* and strap *c* of the fire-escape. This receptacle is provided with a door, B, which, when closed, forms a part of the stile. The hinges *d*, upon which the door B swings, are each provided with a stop, *e*, which prevents the door B from being accidentally closed. The door B serves the double purpose of closing the receptacle *a*, and of a bracket for supporting the pulley and rope of the escape.

C is a grooved pulley, that is journaled in a casing, D, that is secured to the door B. This casing prevents the rope from slipping from the pulley, and also from becoming knotted or twisted.

The strap *c*, which is attached to one end of the rope, is provided with a snap hook or buckle, by which it may be adjusted.

The rope *b* is of such length that both ends may touch the ground.

The manner of using the escape is as follows: The window is raised above the door B, which may then be opened, and when opened it extends beyond the wall of the building. The person desiring to descend places the strap *c* around the chest under the arms, and drops the free end of the rope to the ground.

The escape may be operated by persons below or by the person descending.

The person escaping steps out of the window, and either lowers himself or is lowered by persons from below. One person may in this manner lower a number of people. The apparatus may be placed in the wall of the building, either inside or outside, but it is most convenient when arranged in the window-frame, as described.

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

A fire-escape arranged within a receptacle in a window-frame, having door B, with pulley C on the inside, and having its rope *b* always over said pulley, as shown and described, so that it may be used at a moment's notice.

THOS. A. ANDREWS.

Witnesses:
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