

(No Model.)

A. IRMLER.
FIRE ESCAPE.

No. 355,451.

Patented Jan. 4, 1887.

Fig. 1.

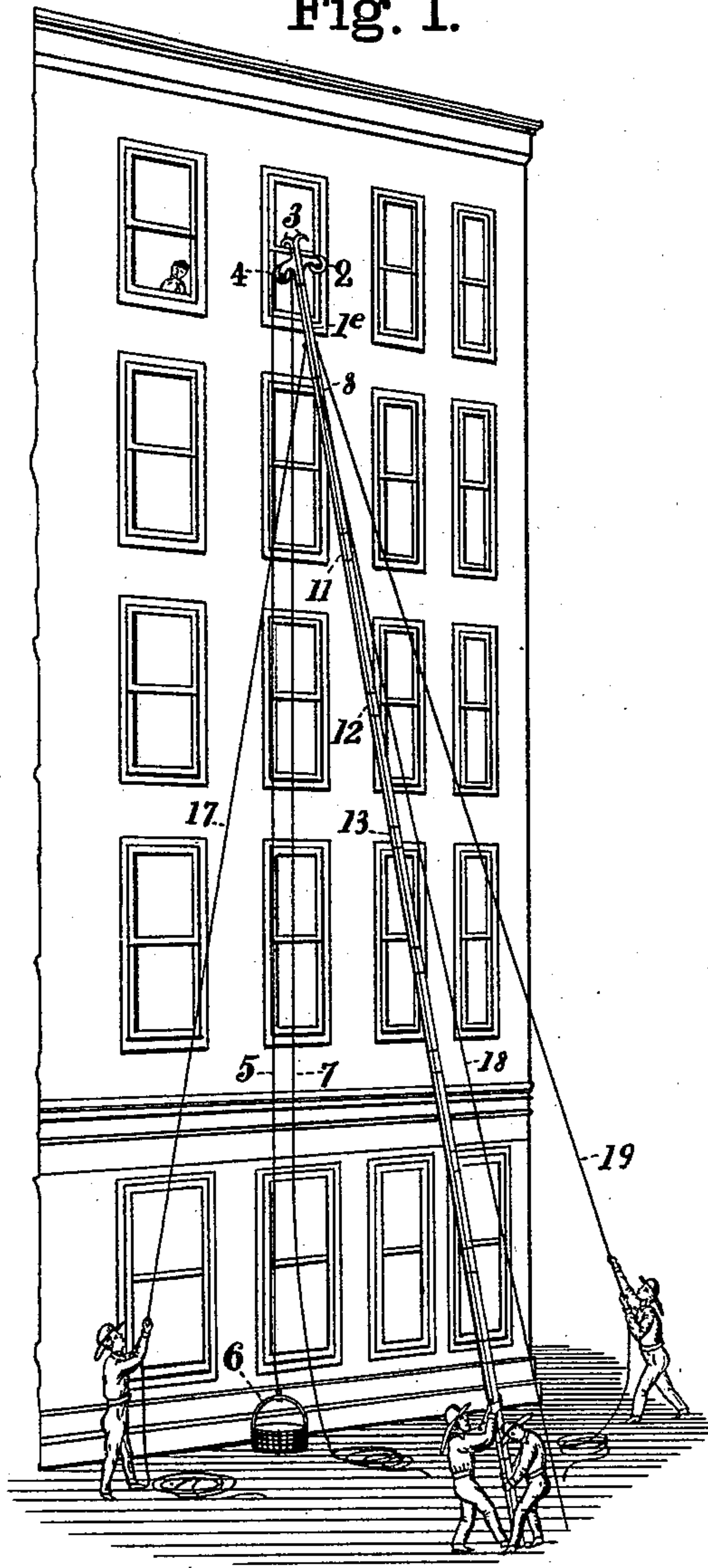


Fig. 3.

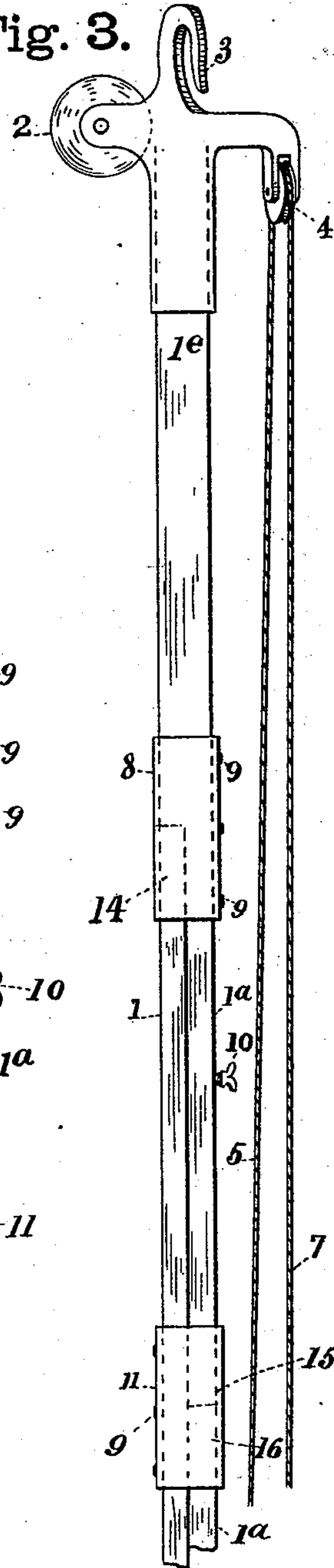


Fig. 2.
X

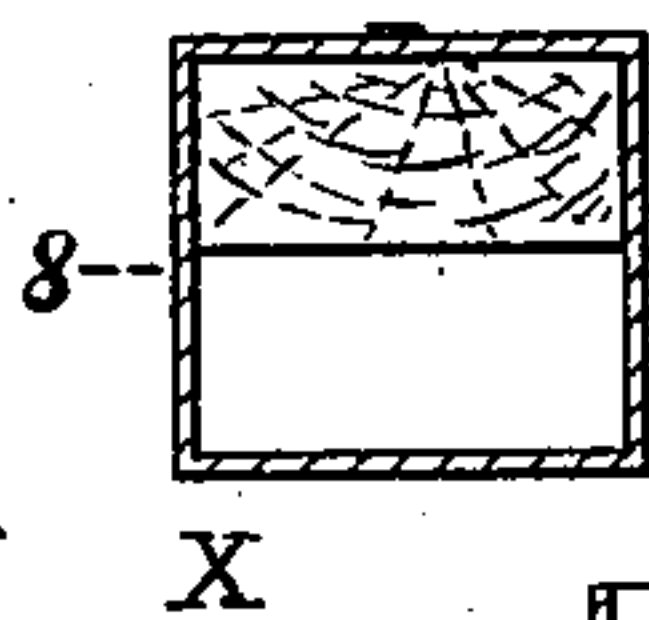
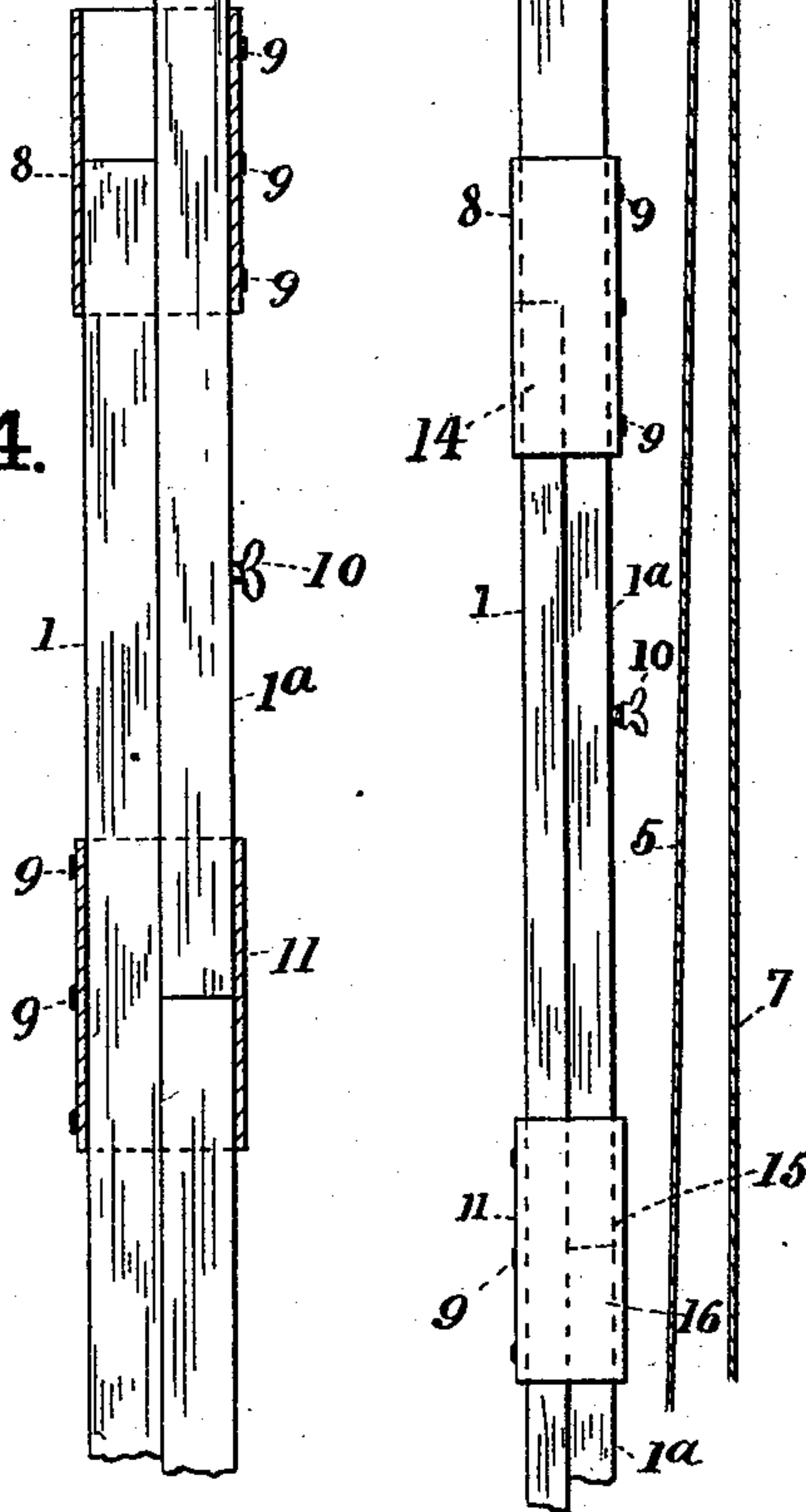


Fig. 4.



Witnesses.

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AUGUST IRMLER, OF GARDENVILLE, NEW YORK.

FIRE-ESCAPE.

SPECIFICATION forming part of Letters Patent No. 355,451, dated January 4, 1887.

Application filed August 18, 1886. Serial No. 211,180. (No model.)

To all whom it may concern:

Be it known that I, AUGUST IRMLER, a citizen of the United States, residing in Gardenville, in the county of Erie and State of New York, have invented certain new and useful Improvements in Fire-Escapes, of which the following is a specification.

The object of my invention is to produce at a comparatively small cost and of simple construction a strong and effective fire-escape, all of which will be fully and clearly hereinafter described, shown, and claimed by reference to the accompanying drawings, in which—

Figure 1 is a perspective view of the whole device, showing its construction and the mode of operating it. Fig. 2 is an enlarged cross-section through one of the joints by which the poles or bars are secured together. Fig. 3 is an enlarged side elevation of a portion of the device; and Fig. 4 represents a longitudinal section through two of the joint-tubes in line X X, Fig. 2, showing three of the bars connected therewith.

This invention, when complete and connected together, consists of a single pole or bar, made up of a series of smaller bars, 1 and 1^a, securely jointed together. The upper end is provided with a friction-roller, 2, so that it may be run easily up against the side of the building. At the top end is one or more hooks, 3, for the purpose of grappling over a window-frame or other convenient place. A pulley, 4, is securely fastened to the upper end of the pole, over which one end of a rope, 5, passes, and is provided with a basket or car, 6, for raising or lowering persons or property, and the other end, 7, is for the use of the firemen or person operating it.

The bars 1 and 1^a are secured or jointed together by joints or small tubes 8 11 12 13, rigidly secured thereto by bolts or rivets 9. The upper bar, 1^a, to which the rope, pulleys, and hooks are attached, is preferably made in one solid piece. Each of the bars 1 and 1^a is provided with the sleeve or square tube 8, &c., as above mentioned, which is located at or near the center of each bar, (see Figs. 3 and

4,) and is rigidly secured by the rivets or bolts 9, as above mentioned.

10 represents the thumb-screws for securing the parts 1 and 1^a rigidly together when in place.

The operation of the invention is as follows: The first portion, 1^a, is set with the friction-roller 2 resting against the building and is pushed upward, and a portion, 1, is put in place and rigidly secured by the thumb-screw 10. The sleeve or tube 8 receiving the end 14 of the part 1, (shown by dotted lines in Fig. 3,) and the tube 11 receiving the lower end, 15, of the part 1^a, also the upper end, 16, of the part 1^a, &c., (all shown by dotted lines in said Fig. 3,) these pieces 1 and 1^a are thus put together one at a time until the required elevation is reached. Three or more guy-ropes, 17, 18, and 19, are used to steady the device as it is being extended upward, which ropes are handled by the operators, as shown in Fig. 1. The rope 5 and 7 is also carried up at the same time. When the hooked portion 3 has reached the desired elevation, the device is turned so as to enable the hook to grasp over a window-frame or any object adapted to hold it. The basket 6 is then drawn up and is ready for the work of rescuing persons or property.

The sections 1 and 1^a may be made square, as shown, or round, or of any other shape adapted for the purpose.

For small fire-escapes the friction-roller 2 may in some cases be dispensed with.

I claim as my invention—

A pole for a fire-escape, consisting of a series of sections, 1^a, 1, and 1^a, secured together by joint-sleeves 8 11 12 13 and thumb-screws, in combination with a grappling-hook, a friction-roller, 2, and a pulley for receiving a rope for raising or lowering a basket or car, substantially as and for the purposes described.

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Witnesses:

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