

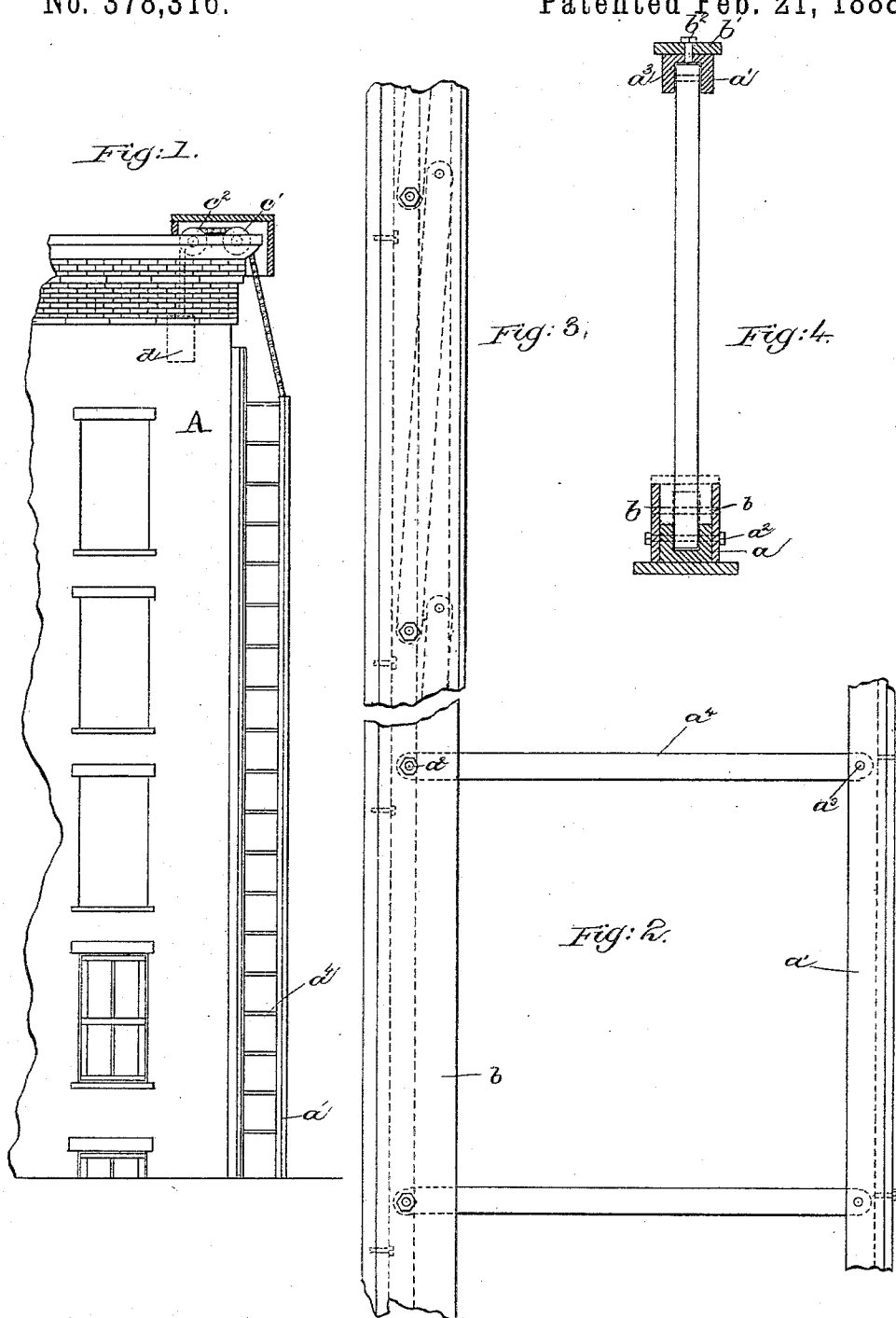
(No Model.)

T. P. HOLT.

FIRE ESCAPE.

No. 378,316.

Patented Feb. 21, 1888.



Witnesses.

Howard T. Eaton.

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UNITED STATES PATENT OFFICE.

THOMAS P. HOLT, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO THE G. W.
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FIRE-ESCAPE.

SPECIFICATION forming part of Letters Patent No. 378,316, dated February 21, 1888.

Application filed July 11, 1887. Serial No. 243,958. (No model.)

To all whom it may concern:

Be it known that I, THOMAS P. HOLT, of Boston, county of Suffolk, and State of Massachusetts, have invented an Improvement in Fire-Escapes, of which the following description, in connection with the accompanying drawings, is a specification, like letters on the drawings representing like parts.

This invention relates to fire-escapes, and has for its object to improve the construction and cheapen the cost of the same.

My improved fire-escape comprises a folding ladder counterbalanced by a weight suspended near the top of the building to which the ladder is attached, the said ladder being easily let down and folded up, as desired.

The particular features in which my invention consists will be pointed out in the claims at the end of this specification.

Figure 1 shows a sufficient portion of a building provided with my improved fire-escape to enable my invention to be readily understood. Fig. 2 is a view of a section of the ladder broken off and on an enlarged scale, the ladder being let down; Fig. 3, a similar view as Fig. 2 with the ladder folded up, and Fig. 4 a top view of Fig. 2.

Referring to Fig. 1, A represents a building to which is attached my improved fire-escape or ladder.

The ladder referred to (shown best in Fig. 4) has its sides made, as shown, of channel-bars a a' , to which are pivoted, as at a^2 a^3 , the rounds a^4 of the ladder. The channel-bar a is secured to the building A in a desired or well-known manner, and has attached to it side pieces, b , which form with the back piece, b' , of the channel-bar a' a chamber, in which the rounds are concealed and protected from inclement weather when the ladder is folded up, as shown in Fig. 3, the back piece, b' , being shown as secured to the channel-bar a' by bolts

b^2 . (See Fig. 4.) The channel-bar a' has secured to it a rope, chain, or cable, c , extended upward and passed about pulleys c' c^2 , as herein shown, at the top of the building, the said rope or cable having attached to its other end, as shown, a weight, d , (see dotted lines, Fig. 1,) which substantially counterbalances the weight of the channel-bar a' and rounds pivoted thereto.

The ladder, as shown in Fig. 1, is in position ready for use, and if it is desired to fold up the ladder it is only necessary to push upward on the side a' , the weight d serving to keep the ladder in its folded position (shown in Fig. 3) until it is again positively unfolded or pulled down.

I claim--

1. In a fire-escape, the channel-bar a , having side pieces, b , combined with the channel-bar a' , having a back, b' , and with rounds a^4 , pivoted to said channel-bars, the said back b' cooperating with the sides b to form a chamber when the ladder is folded up, and wherein the rounds are concealed and protected from inclement weather, substantially as described.

2. In a fire-escape, the channel-bar a , having side pieces, b , combined with the channel-bar a' , having a back, b' , and with rounds a^4 , pivoted to said channel-bars, the said back b' cooperating with the sides b to form a chamber when the ladder is folded up, and wherein the rounds are concealed and protected from inclement weather, and with a counterbalancing-weight, d , attached to the upper end of the sides a' , substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THOMAS P. HOLT.

Witnesses:

G. W. GREGORY,
B. DEWAR.