

(No Model.)

M. D. BAKER.  
FIRE ESCAPE.

No. 436,071.

Patented Sept. 9, 1890.

Fig. 1.

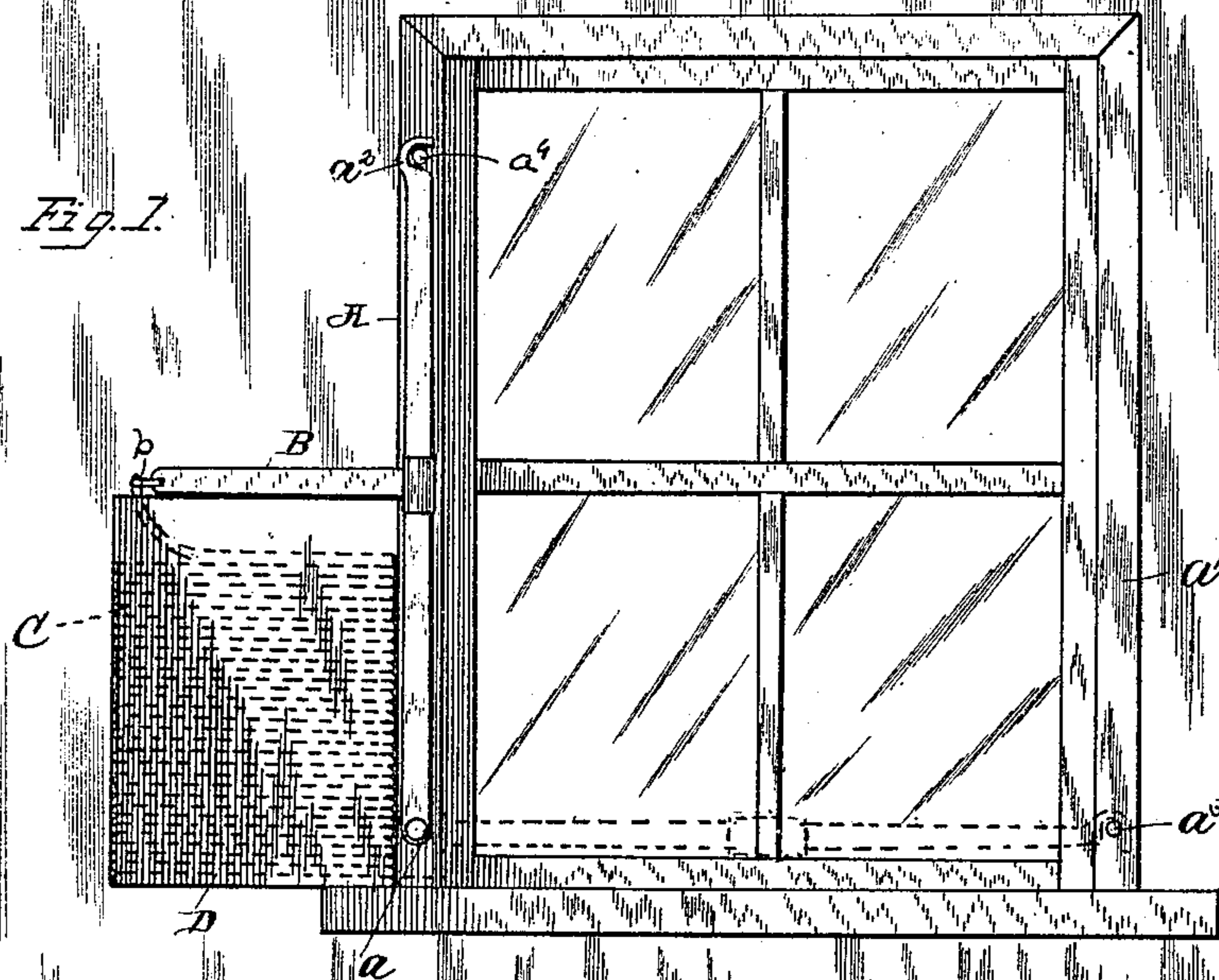
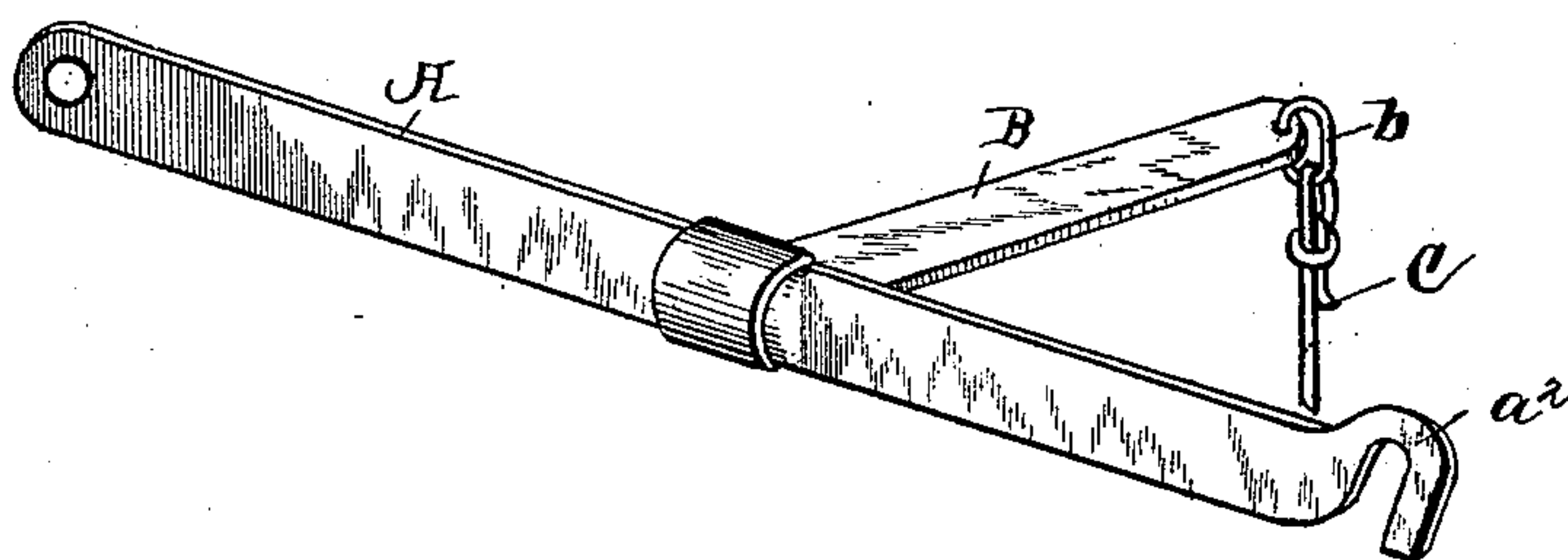


Fig. 2.



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# UNITED STATES PATENT OFFICE.

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## FIRE-ESCAPE.

SPECIFICATION forming part of Letters Patent No. 436,071, dated September 9, 1890.

Application filed March 20, 1890. Serial No. 344,639. (No model.)

*To all whom it may concern:*

Be it known that I, MARY DENT BAKER, a citizen of the United States of America, residing at Washington, in the District of Columbia, have invented certain new and useful Improvements in Fire-Escapes, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention pertains to certain new and useful improvements in fire-escapes, having for its object the provision of simple and highly-efficient means for securing the inner end of a rope or flexible ladder to a window or other point of exit and holding the same conveniently at hand ready for use.

The invention comprises an arm or bar pivotally secured at one end to one side of a window-frame and having a short arm secured thereto, to which is attached one end of a rope or flexible ladder, which when not in use is retained in a box or casing in juxtaposition to the window, whereby upon throwing the rope or ladder outward the bar or arm will be placed transversely across the window and form a secure anchor for the inner end of said rope, substantially as hereinafter fully set forth, and particularly pointed out in the claim.

In the accompanying drawings, Figure 1 is a view showing my invention as applied to a window. Fig. 2 is an enlarged detail perspective view.

Referring to the drawings, A designates an arm or bar, which is pivotally secured at one end by a stud  $a$  to one of the vertical sides of a window-frame  $a'$ . The other free end of this arm or bar has a hook  $a^2$  formed therewith, which is designed when the arm or bar A is raised to engage a yielding or spring stud  $a^4$ . This stud is sufficiently firm to ordinarily hold the bar from falling forward by its own weight; but when the weight of bar B and the rope are added and applied to draw bar A down to the right it is designed to yield and liberate said bar A. Said bar A when lowered engages a short stud or rod  $a^3$ , secured to the opposite side of said frame, said arm or bar being extended transversely across the window-frame.

B is a second arm secured to arm or bar A at about the center thereof, so that when the

latter is lowered said arm B will project across and rest upon the window-sill, its outer end extending a short distance beyond the wall or side of the building, and when said bar or arm A is raised into a vertical position the arm B can be turned parallel with the wall and held out of the way.

C is the rope or flexible ladder connected at one end to the outer end of arm B by a ring  $b$ . This rope or ladder when not in use is placed within a box or casing D either to one side or beneath the window-frame, so as to be concealed from view, the arm or bar A being then in a vertical position and the arm B placed across the upper end of said box or casing.

In practice, in the event of a fire, the rope or flexible ladder is removed from its inclosing box or casing and thrown out of the window at which it is located, the weight or pull of the rope having the effect of swinging the arm B around in front of the window and then pulling sufficiently on the bar A to overcome the spring-catch  $a^4$  and bring down said bar A into engagement with the fixed stud  $a^3$ . Thus merely throwing the rope out of the window brings the device instantly into position for use. In this manner a firm connection or anchor is secured for the inner end of the rope or flexible ladder, and the latter is held out of contact with the side of the building.

It is obvious that my invention is applicable to all forms of rope or flexible ladder fire-escapes now in use, and the body supports or clutches generally employed can also be placed within the box or inclosing-casing and likewise concealed from view; or when the same are not used the rope may be knotted throughout its length to form stops or hand-rests.

My invention is extremely simple, cheap, and durable, and by means thereof a firm anchorage is secured for the inner end of a rope or flexible ladder, and the latter is held out from contact with the building when in use and concealed from view when not used by the box or casing, which presents a neat or ornamental appearance.

I claim as my invention—

In a fire-escape, the combination, with a window-frame having a stud  $a^3$  at one side thereof and a yielding or spring stud  $a^4$ , of the arm or bar A, pivotally secured at one end

to one of the vertical sides of said window-  
frame and having its other end provided with  
a hook to engage said stud  $a^4$  when raised and  
engage said stud  $a^3$  when lowered, the arm B,  
5 pivotally secured to said arm or bar A so as to be  
moved at right angles, the rope or flexible lad-  
der connected to the outer end of said arm B,  
and the inclosing box or casing wherein said

ladder is placed when not in use, substantially  
as set forth. 10

In testimony whereof I affix my signature in  
presence of two witnesses.

MARY DENT BAKER.

Witnesses:

J. NOTA MCGILL,  
WM. S. HODGES.