(No Model.)

J. CLABRON.

FIRE ESCAPE AND EXTINGUISHER.

No. 560,474. Patented May 19, 1896.

Fig. 2

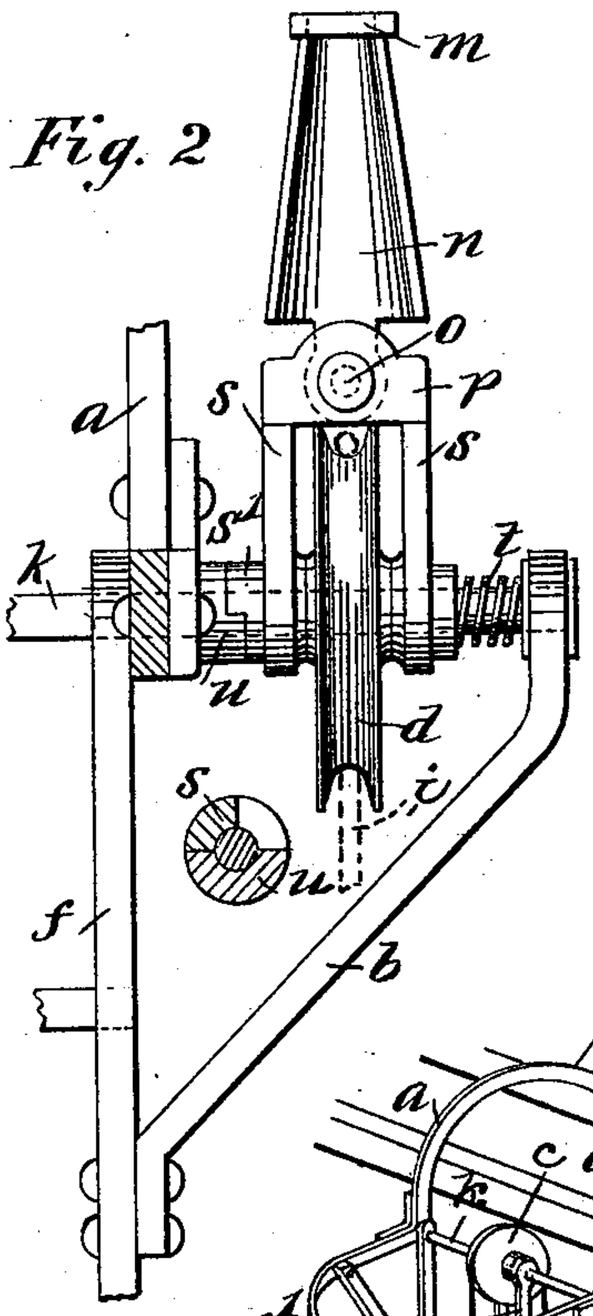


Fig. 3

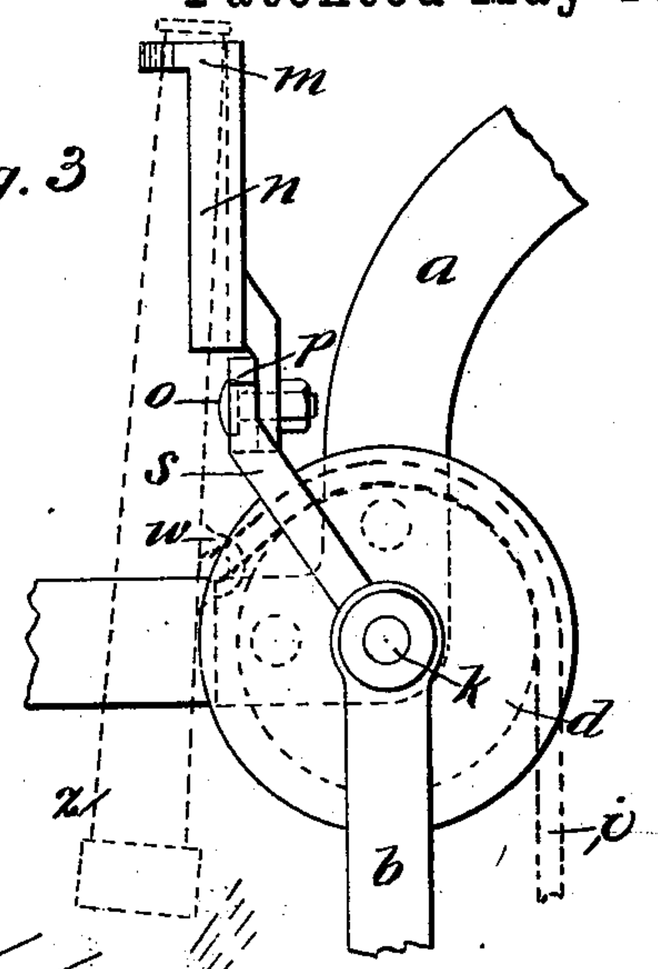
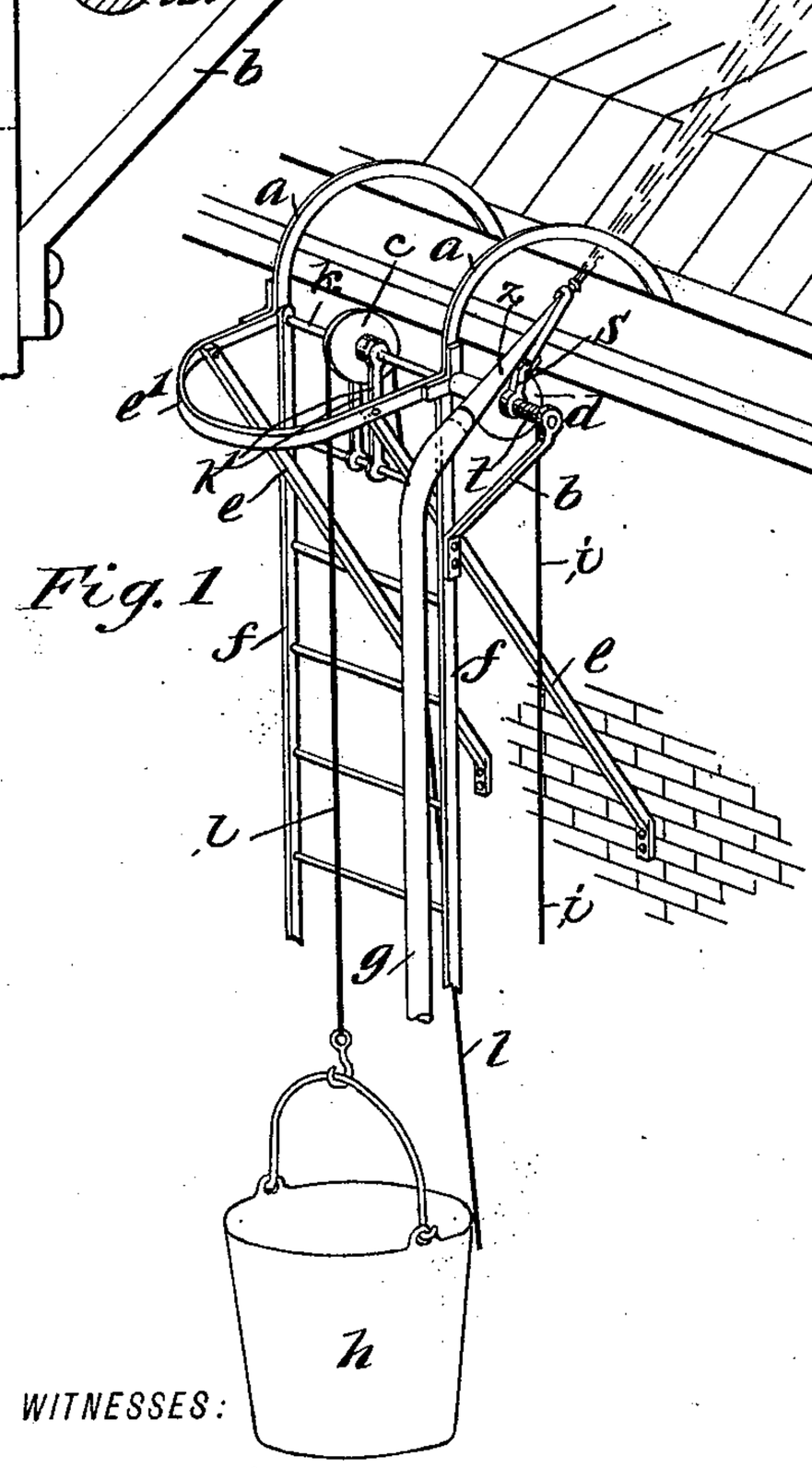
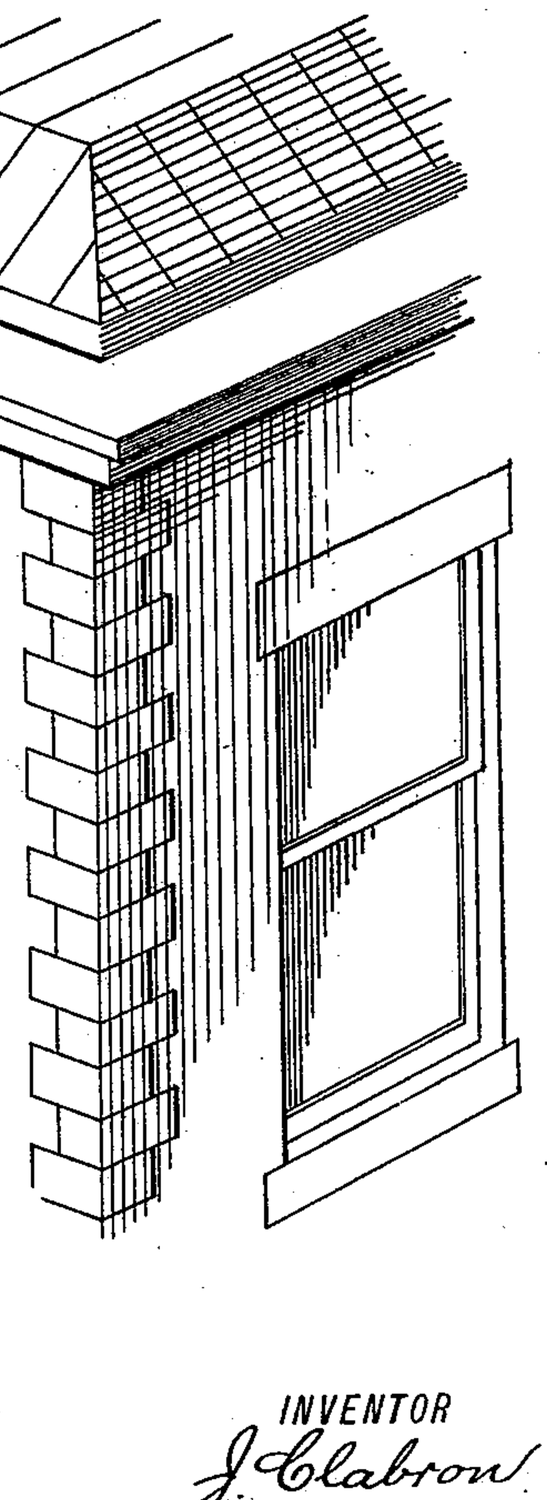


Fig. 1





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FIRE ESCAPE AND EXTINGUISHER.

SPECIFICATION forming part of Letters Patent No. 560,474, dated May 19, 1896.

Application filed August 6, 1895. Serial No. 558,446. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH CLABRON, of Lexington, in the county of Fayette and State of Kentucky, have invented a new and Improved Fire Escape and Extinguisher, of which the following is a full, clear, and exact description.

The main object of this invention is to provide a combined fire-escape and hose holding and manipulating apparatus, and one by which persons may ascend and descend a building, and which will be capable of holding a hose in position to throw a stream of water upon the building.

To this end the invention consists, broadly stated, in a ladder held to the side of a building and having a peculiarly-constructed hoisting apparatus, whereby persons and things may be raised or lowered, and having also a peculiarly-constructed hose holding and hoisting device, all of which will be fully described hereinafter, and finally embodied in the claims.

The invention further consists in various novel features of construction and combinations of parts, which will hereinafter appear.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 represents a perspective view of a portion of a house having the improvement applied thereto. Fig. 2 is a front elevation of a portion of the improvement, and Fig. 3 is a side elevation of the same.

In carrying the invention into effect a ladder *f* is extended vertically and alongside the walls of the house, as shown in Fig. 1, and has curved portions *a* at its upper end, which embrace the ledge of the roof and serve to secure the ladder in place. The upper rung *k* of the ladder *f* has connected thereto two parallel and vertical rods *k'*, which extend downwardly and are connected to the next rung below the rung *k*. Revolubly mounted between the rods *k'* is the wheel or pulley *c*, over which the cord *l* passes, and this cord has a bucket or basket *h* connected thereto, by means of which persons or things may be raised or lowered along the ladder, and the ladder has diagonally-extending braces *e*, secured to the side of the building and to the semicircular brace *e'*, connected to the upper end of the ladder, these parts being adapted to furnish means for assisting persons in or out of the bucket or basket *h*. The left-hand end of the rung *k* is extended beyond the ladder and provided with a brace *b*, which supports it in a horizontal position. Pivotally mounted on the extended end of the rung *k* is a U-shaped frame *s*, which carries at its outer end a tapering plate *n*, having a bridge *m* at its free end, and this tapering plate has a hinged connection with the frame *s* at the end *p* by means of the bolt *o*. The plate *n* is tapering to conform to the shape of the nozzle *z* of the hose *g*, and the said nozzle is passed under the bridge *m*, and by binding with the same the nozzle is held in place.

Revolubly mounted upon the extended end of the rung *k* and between the arms of the frame *s* is the pulley *d*, over which the rope *i* passes, and this rope is connected to an eye *w* at the upper end of the hose *g*, and by these means the hose may be drawn upwardly to the plate *n*. Embracing the rung *k* and bearing against the right-hand side of the frame *s* is an expansive spiral spring *t*, which pushes said frame toward the shouldered face *u*, the same being rigid on the ladder, and the frame is provided at its left-hand side with a shouldered face *s'*, which coöperates with the face *u*. The disposition of the faces *u* and *s'* is such that the frame *s* may be moved toward the house by pulling on the rope *i* and held in fixed position, so as to keep the nozzle of the hose at the proper adjustment, and the frame *s* may be moved to its original position by pulling on the hose *g*.

From the foregoing description it will be seen that should a fire take place in a house equipped with my invention a person may readily escape by means of the ladder *f*, and firemen may reach the roof and other parts of the house with great facility. It will also be seen that the hose *g* may be at once adjusted in the plate *n* and held at said adjustment without the attendance of a fireman or other person, and, still further, by means of the pulley *d* and rope *i* the laborious work of carrying the hose up the ladder is reduced to a minimum. The bucket or basket *h* serves

as a means for raising and lowering persons, and it also may be used to carry material to and from parts of the house.

It will be observed that the nozzle *z* may be swung to stand at various inclinations (see Figs. 1 and 3) and that the nozzle-holder *m n* may be further moved laterally on its pivot *o*.

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

1. The combination of a stationary frame, a nozzle-holder pivotally mounted thereon, and a pulley rotatable independently of the nozzle-holder and located in approximately the same plane therewith, as and for the purpose set forth.

2. The combination of a stationary frame, a nozzle-holder pivotally mounted thereon, means for limiting the swinging movement of the said holder, and a pulley rotatable independently of the nozzle-holder and located in approximately the same plane therewith, substantially as described.

3. The combination of a stationary frame, a movable frame pivotally connected thereto, a nozzle-holder mounted to turn on the movable frame about an axis extending transversely of the pivot of said frame, and a pulley rotatable independently of the nozzle-holder and located in approximately the same plane therewith, as and for the purpose set forth.

4. The combination of a stationary frame having a shouldered face, a movable frame pivotally mounted on the stationary frame and having a shouldered face, engaging with the shouldered face of the stationary frame, a spring pressing the movable frame, a pulley journaled in the stationary frame and a nozzle-holding plate fixed to the movable frame in approximately the same plane with the pulley, substantially as described.

5. The combination of a ladder having one rung extended and having a shouldered face at said rung, a frame mounted to turn on the rung and having a shouldered face engaging the shouldered face of the ladder, a nozzle-holding plate carried by the frame, a spring pressing the frame, and a pulley journaled on the rung in approximately the same plane with the said plate, substantially as described.

6. The combination of a support, a U-shaped frame pivoted thereon, means for locking the U-shaped frame, a pulley loosely held between the members of the U-shaped frame, and a nozzle-holding plate carried by the said frame, substantially as described.

7. The combination of a support, a frame pivoted thereon, means for locking the frame, and a nozzle-holding plate secured to the frame and having at its outer end an arched bridge, substantially as described.

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Witnesses:
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