No. 767,166. PATENTED AUG. 9, 1904.

H. J. NOLL.

FIRE ESCAPE.

APPLICATION FILED MAR. 21, 1904.

NO MODEL.

Fig. 1.

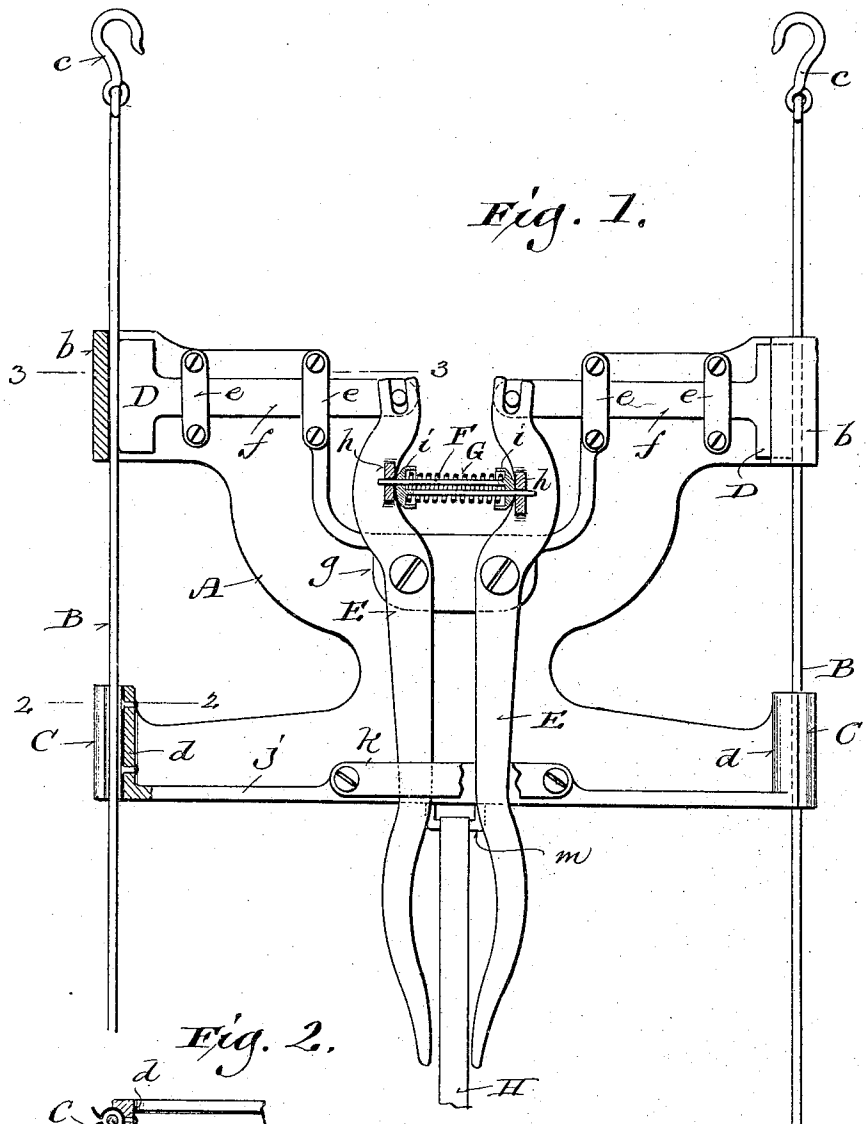


Fig. 2.

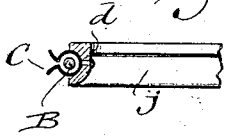
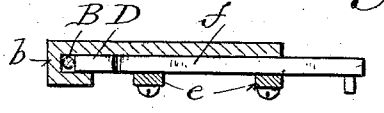


Fig. 3



Witnesses
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No. 767,166. Patented August 9, 1904.

UNITED STATES PATENT OFFICE.

HENRY JOHN NOLL, OF MILWAUKEE, WISCONSIN.

FIRE-ESCAPE.

SPECIFICATION forming part of Letters Patent No. 767,166, dated August 9, 1904.

Application filed March 21, 1904. Serial No. 199,094. (No model.)

To all whom it may concern:

Be it known that I, HENRY JOHN NOLL, a citizen of the United States, and a resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Fire-Escapes; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to provide simple economical portable machines of the kind commonly known as "fire-escapes," the same being designed, in connection with suitable guides, to facilitate descent from floors or stagings of buildings, the guides being attached at their upper ends to stationary devices of suitable strength; and said invention consists in certain peculiarities of construction and combination of parts hereinafter particularly set forth with reference to the accompanying drawings and subsequently claimed.

Figure 1 of the drawings represents a partly-sectional front elevation of a machine in accordance with my invention clutched on parallel guides; and Figs. 2 and 3, horizontal section views of fragments of the machine, these views being respectively indicated by lines 2 2 and 3 3 in the first figure of the series.

Referring by letter to the drawings, A indicates a plate of suitable material and of any suitable configuration at the lower portion thereof to provide for grip of the same by the operator of the machine of which it forms a part. The front side of the plate is provided with upper corner-lugs *b*, that are vertically grooved to constitute inwardly-open jaws engageable with parallel guides B, of flexible wire or other suitable material, having their upper ends provided with hooks *c* or other suitable means for the attachment of each to some other suitable device.

Vertically-grooved lower corner-flanges *d* of the plate A are engaged by split sleeves C, held in place by rivets or other suitable means, and the guides B engage the sleeves.

Bolted or otherwise secured to the front of the plate A are blocks *e*, that serve as guides for horizontal shanks *f* of jaws D, that engage the jaws aforesaid against the guides B therein, and a pair of vertically-disposed levers E, fulcrumed on a front lug *g* of said plate, have their upper ends in connection with the shanks of the movable jaws.

Above their fulcrums the levers are provided with forwardly-projecting ears *h*, and guided in these ears are pins F, having inwardly-flanged eccentric heads *i*, engaged by the ends of a spiral spring G under tension, the expansive force of the spring being sufficient to hold the machine at any elevation to which it may be adjusted on its guides. Below their fulcrum the levers extend between a horizontal flange *j* of the plate A and a guard-bar *k*, made fast at its ends to said flange by screws or other suitable means.

By gripping the free ends of the levers and pressing inward, the clutch of the jaws D on the guides B is increased to regulate the descending speed of the operator hanging from the machine, it being possible to exert sufficient friction on said guides to stop said machine in its descent.

The guides B may be portable with the machine or permanently secured to a building or staging.

Depending from the plate A, central of the same, is a loop *m* for a sling H for the operator of the machine.

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

1. A plate provided with upper front jaws, other jaws engageable with those aforesaid to grip interposed guides and having shanks guided on the plate, vertically-disposed levers fulcrumed in connection with said plate and connected at their upper ends to said shanks, pins for which the levers are provided with guides above their fulcrums, and a spring under tension between heads of the pins.

2. A plate provided with upper front jaws, other jaws engeagable with those aforesaid to grip interposed guides and having shanks guided on the plate, spring-controlled vertically-disposed levers fulcrumed in connection with said plate and connected at their upper ends to said shanks, and split sleeves in connection with the lower portion of the aforesaid plate for engagement with the parallel guides gripped by the jaws.

3. A plate provided with upper front jaws,

other jaws engageable with those aforesaid to grip interposed guides and having shanks guided on the plate, spring-controlled vertically-disposed levers fulcrumed in connection with said plate and connected at their upper ends to said shanks, and a guard-bar opposing the levers parallel to the aforesaid plate.

4. A plate provided with front upper jaws and a lower sling-loop, jaws engaging those aforesaid to grip interposed guides and provided with shanks guided on the plate, and spring-controlled vertically-disposed levers that have fulcrum connection with said plate and are connected at their upper ends to said shanks.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

HENRY JOHN NOLL.

Witnesses:
N. E. OLIPHANT,
R. J. BARSCH.