

(No Model.)

J. McL. MURPHY & J. LYNN.

FIRE ESCAPE.

No. 362,527.

Patented May 10, 1887.

Fig. 1.

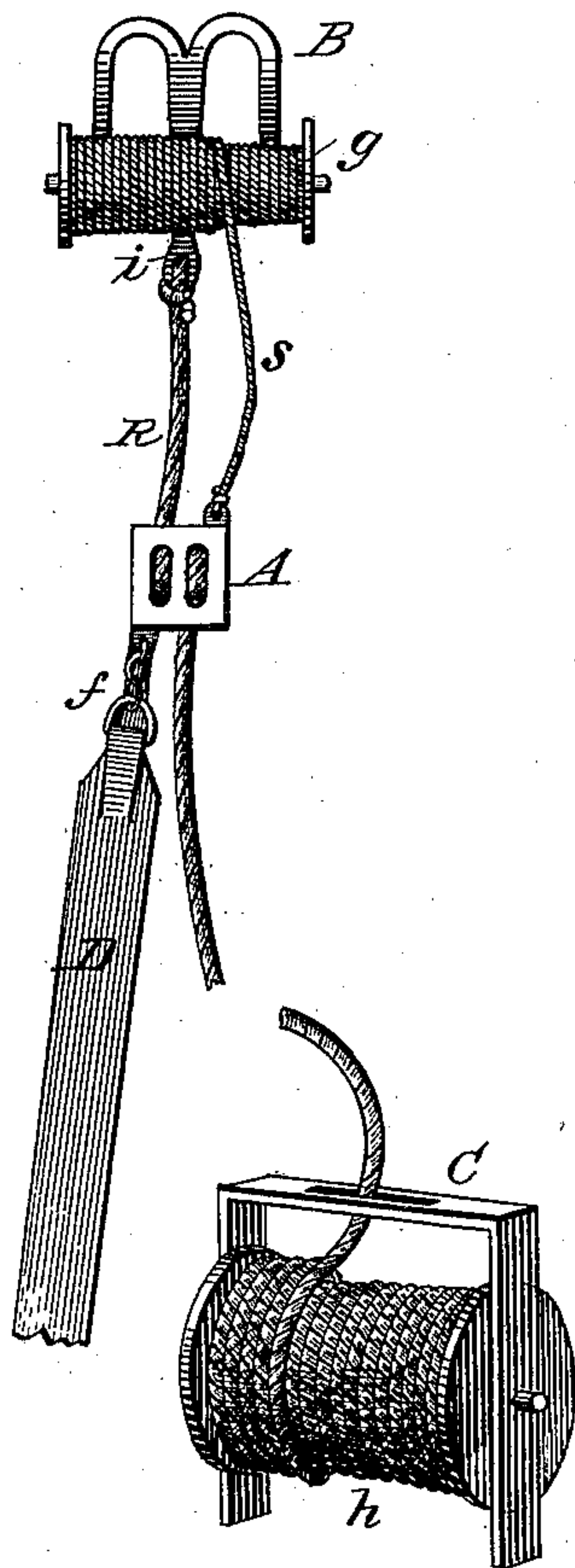


Fig. 2.

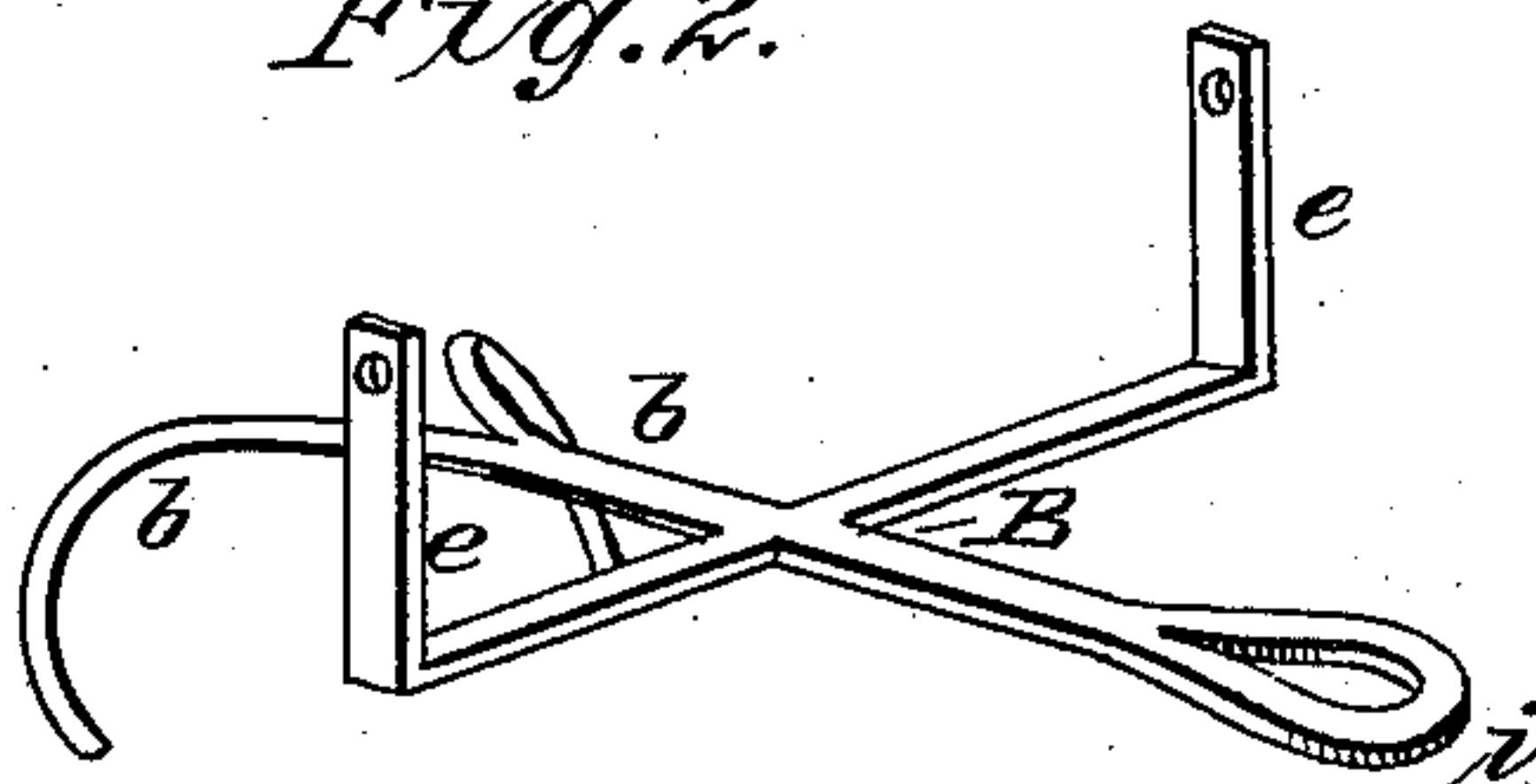
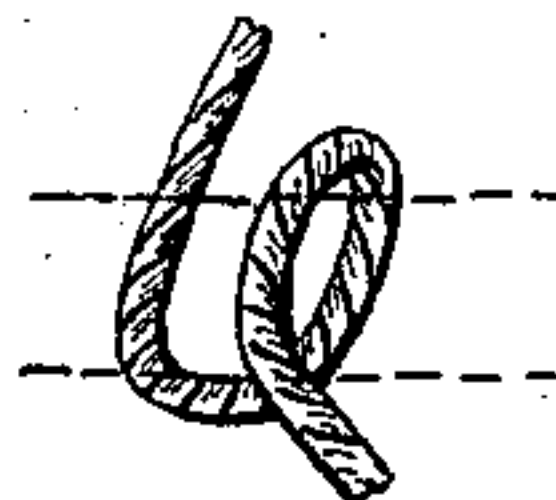


Fig. 3.



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FIRE-ESCAPE.

SPECIFICATION forming part of Letters Patent No. 362,527, dated May 10, 1887.

Application filed August 5, 1886. Serial No. 210,134. (No model.)

To all whom it may concern:

Be it known that we, JOHN McLEOD MURPHY and JOHN LYNN, citizens of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Fire-Escapes; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention is an improvement in fire-escapes; and it consists in the peculiar construction and arrangement of parts, as hereinafter fully described and claimed.

Reference is to be had to the accompanying drawings, in which Figure 1 is a perspective view of our fire-escape, parts being shown only partly. Fig. 2 is a representation of one of the parts detached. Fig. 3 is a diagrammatic view which will be hereinafter described.

A frame support, B, made of wrought-iron, is so constructed that when placed upon the sill of a window hooks or projections *b* may reach down behind and under the inside half of the window-sill to firmly support any weight that may be exerted downwardly upon the eye *i*, which is placed in such relation to the hooks that it projects just beyond the outside of the window-frame. This support B is provided further with bearings *e* for the journal of a reel, *g*. To the eye *i* of the frame B is fastened the rope or line R, which, after passing through the block A, is wound upon the reel C, and down which escape from danger is made.

The block A, through which the rope R is passed, is made in one piece of metal, preferably brass, and is internally grooved or wormed, so that that part of the rope in the block must assume the shape indicated in Fig. 3. This block also has formed upon it at suitable points hooks or eyes, or any other suitable devices to enable it to be attached both to the line *s*, wound upon the reel *g*, and to the belt D, which is made of canvas ordinarily, and which is provided at each end with a hook or its equivalent, to be connected with the connection device of the block A.

The operation of our improved fire-escape is

as follows: The reel C is tossed out of the window and is unwound. The person seeking safety passes the belt D around his body and attaches both ends of the belt to the block A. He then gets out of the window after taking hold of the rope R below the block A, and regulates his descent by the downward pressure exerted on the rope R.

It will be seen that as the person descends, thereby drawing down the block A away from the window, the line *s*, attached to the block A and wound upon the reel *g*, will be unwound. By winding up this reel, therefore, (when unwound,) the block A and belt D will be returned to the window again.

It is evident that the rapidity of descent of a person may be lessened at the will of the descender by our apparatus in several different ways—for instance, by passing the rope under the foot before being taken hold of by the hand and pressing downward more or less against the rope; or descent may be entirely arrested by taking hold of the rope R above the block A.

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

1. In a fire-escape, the combination, with the block A and the rope R, passed through the groove thereof, of the support B, for fastening the rope to the window-frame, and provided with the reel *g*, for returning the block to the window, substantially as set forth.

2. In a fire-escape, the supporting device B, having the fastening-hooks *b*, the depending arm or eye *i*, and the bearings *e*, in combination with the returning-reel *g*, substantially as set forth.

3. In a fire-escape, the combination, with the block A, grooved as described, the rope R, passed through the groove of the block, the belt D, attached to the block, and the fastening device B, provided with the reel *g*, of the reel C, substantially as and for the purposes set forth.

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