

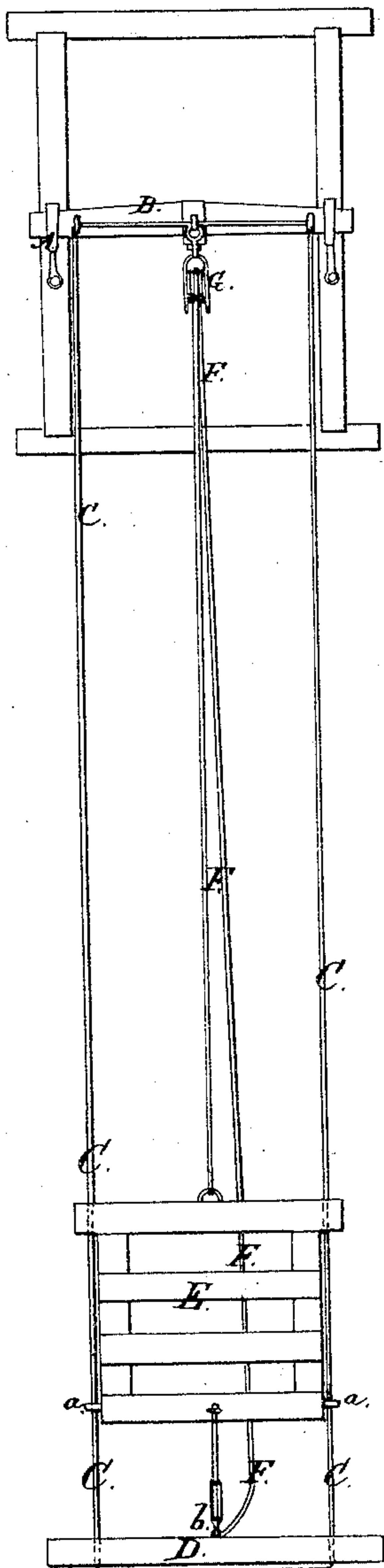
*Mackenzie & Cooper.*

*Fire Escape.*

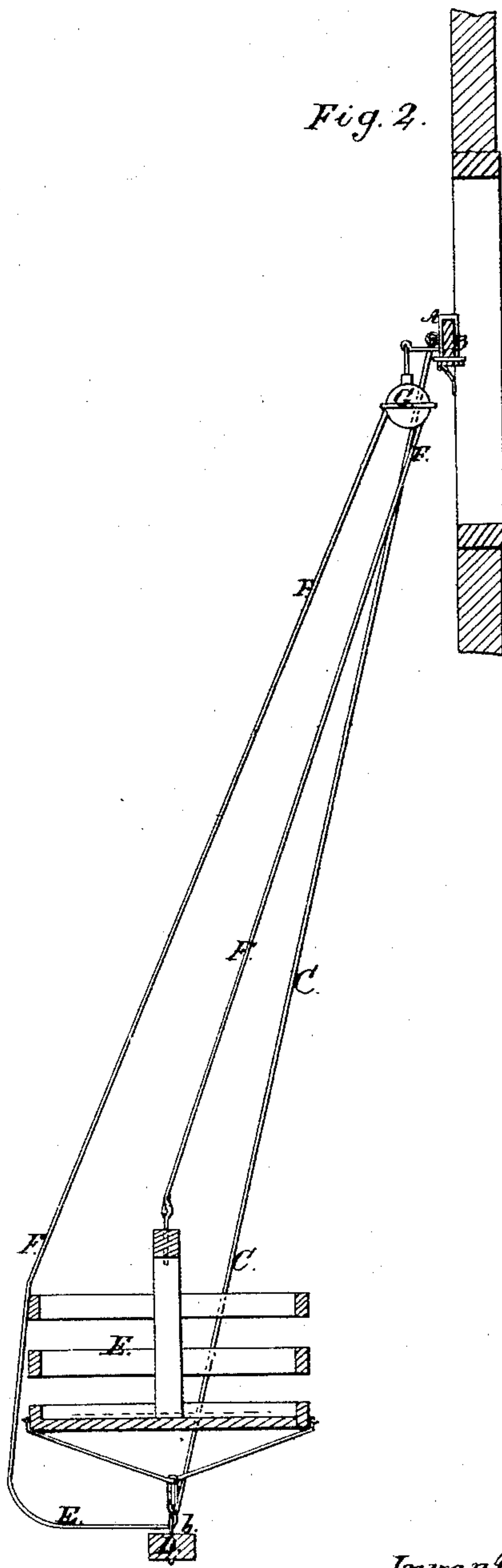
*N<sup>o</sup> 65,408.*

*Patented Jun. 4, 1867.*

*Fig. 1.*



*Fig. 2.*



*Witnesses:*  
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# United States Patent Office.

ROBERT MACKENZIE AND JAMES COOPER, OF NEW YORK, N. Y.

*Letters Patent No. 65,408, dated June 4, 1867.*

## IMPROVED FIRE-ESCAPE.

*The Schedule referred to in these Letters Patent and making part of the same.*

### TO ALL WHOM IT MAY CONCERN:

Be it known that we, ROBERT MACKENZIE and JAMES COOPER, of the city, county, and State of New York, have invented a new and improved Fire-Escape; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a front elevation of our improved fire-escape, and

Figure 2 is a vertical sectional view of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a fire-escape that consists of a car suspended from a rope, the latter passing over a pulley-block which is secured to the window-frame on which this escape is to be used. The pulley-block is attached to a cross-head which is fitted into hooks that are screwed or otherwise fastened to the said window-frame, and the car is guided by ropes, of which the upper ends are secured to the same cross-head, while their lower ends are securely anchored in the ground.

A A represent two hooks, which are attached to the window-frames of a building. A cross-head, B, can be held across the window by these hooks, as is shown in the drawings. Guide-ropes C C are secured to the ends of the cross-head B; and their lower ends are anchored in the ground, or are secured to a bar, D, which is secured in the ground by anchors or any other suitable means. A car, E, is suspended from the cross-head B, and is provided with a rope, F, which passes over a pulley-block, G, that is attached to the cross-head B, as shown. The car is provided with lugs or ears *a a*, which fit around the guide-ropes C, as is clearly shown in fig. 1. One end of the rope F is secured to the top of the car E, and then the rope passes over the block G, and then over a block, *b*, attached to the bar D, and its other end is then secured to the lower side of the car. Thus by working either one of the ends of the rope F the car can be raised and lowered at will. The guide-ropes C form an inclined track, on which the car moves up and down, clearly indicated in fig. 2. This fire-escape may either be kept in the building in a convenient position to be put up, or it may be in the hands of the fire department. In the latter case a rope has to be thrown over the building by a rocket or other suitable device, and the escape can then be hoisted.

We claim as new, and desire to secure by Letters Patent—

The fire-escape consisting of the inclined track-ropes C C, their upper ends secured to the cross-bar B of the window-frame, their lower ends to the ground-bar D, and forming tracks, upon which the car E slides, the latter being guided by the ears *a a* fitting around said track-ropes, and operated by means of the hoisting-tackle F G *b*, when all are constructed and arranged as described for the purpose specified.

ROBT. MACKENZIE,

his  
JAMES X COOPER.  
mark.

Witnesses:

WM. F. McNAMARA,

ALEX. F. ROBERTS.