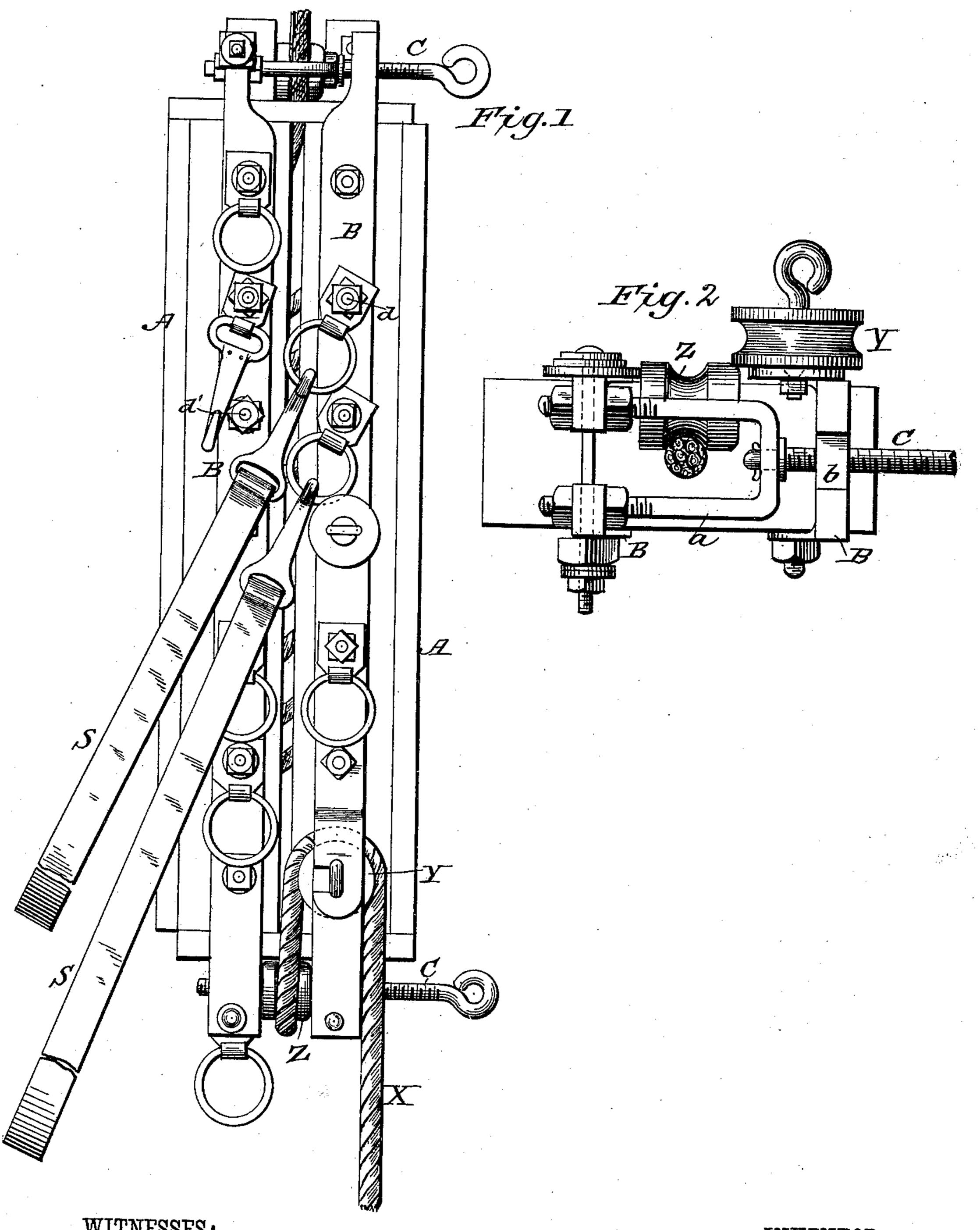
## T. BRICE.

FIRE ESCAPE.

No. 383,340,

Patented May 22, 1888.

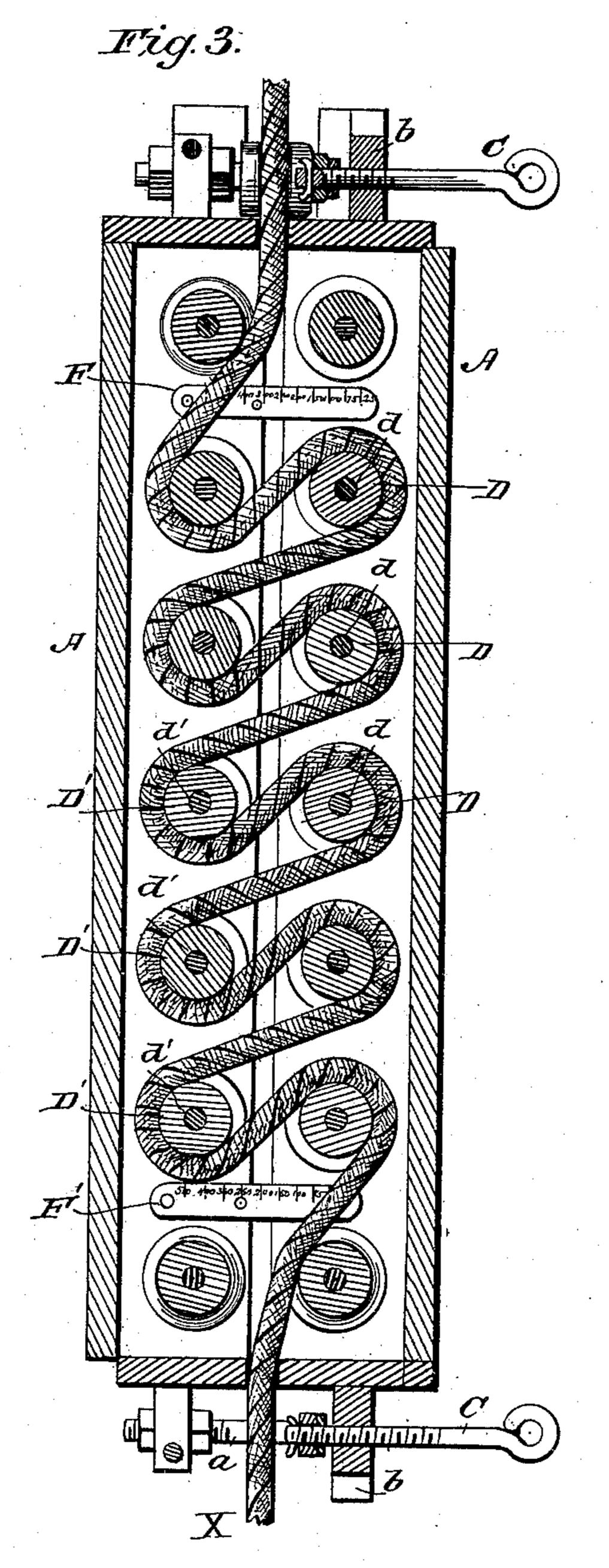


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Patented May 22, 1888.



WITNESSES:

Fred J. Dieterich Edw. U. Byrn. Thomas Price.

BY Munn Le

## United States Patent Office.

THOMAS BRICE, OF SANDY HILL, NEW YORK.

## FIRE-ESCAPE.

SPECIFICATION forming part of Letters Patent No. 383,340, dated May 22, 1888.

Application filed September 28, 1887. Serial No. 250,959. (No model.)

To all whom it may concern:

Sandy Hill, in the county of Washington and State of New York, have invented a new and 5 useful Improvement in Fire-Escapes, &c., of which the following is a specification.

The object of my invention is to provide for the escape of persons from burning buildings when egress is cut off from the stairways to by flame or smoke, and which may also be used for lowering staging in repairing or painting high buildings.

It consists in a peculiar construction of case with adjusting screws or bolts, pulleys, rope, 15 and indicator for adjusting the device to the weight of the person who is to descend, as will be hereinafter described.

Figure 1 is a side elevation, Fig. 2 an end view, and Fig. 3 a longitudinal central sec-20 tion.

The case is made of two long rectangular half-boxes, A A, with their interior sides facing each other. The preferred dimensions of the case as formed by these half-boxes is about 25 seven inches wide, two and a half inches thick, and about two feet long; but these dimensions may of course be varied. To the sides of each of the half-boxes are secured the longitudinal metal straps or bands BB, which extend to 30 the ends of the boxes on their outer sides and terminate in couplings a b, arranged to be brought together or separated by handled screw-bolts C C, one at each end. One of these couplings, b, is screw-threaded inter-35 nally to mesh with the bolt, and the other, a, is made U shaped to give passage to the rope, and is swiveled to the end of the bolt.

D D, &c., represent a series of grooved pulleys, which is arranged in one of the half-40 boxes, and D' D' D', &c., represent another series, which is arranged in the other half-box in the same plane as the first series. These pulleys all turn loosely upon their axes d and d', and said axes rest in the metal bands B B. 15 Through each end of the case there passes the rope X, which is wound first around the pulley of one half-box, and then around its corresponding mate in the other half-box, and so is continued around the double series of 50 pulleys from one end to the other of the case. Now, when the pulleys of one half-box are made to approach those of the other half-box by the adjustment of the screw-bolts at the end, the rope is turned in shorter bends, and 55 it passes through the case with a greater re-

tardation to adapt it to the descent of an in-Be it known that I, Thomas Brice, of | creased weight. When the boxes are separated, the rope passes more freely. To enable the operator to adapt this adjustment to the weight to be lowered, graduated indicator 60 plates F F' are attached to one of the halfboxes and register with the edge of the other half box, or with a line made on the same. These indicator plates are marked with numbers from 25 to 500, indicating pounds, and 65 these marks in registering with the edge or line of the opposite half-box indicate that when the two half-boxes occupy this position the rope will pass through the pulleys at a proper speed for the descent of the number of 70 pounds that may be thus indicated.

> The rope in use is attached to the upper story of a building at the window, and straps S S' are attached to the case. One of these straps, S, passes around the body under the 75 arms, and the other, S', receives the thighs. In the place of these straps a suitable harness or basket may be used for women, children, or goods. This device does not produce such friction on the rope as to burn it, and the rope 80 moves freely and uniformly and without jerks. The device is also simple and reliable, and is not likely to be disarranged in the hurry and excitement of the occasion. By passing the rope up over a pulley, Z, Fig. 1, and over an- 85 other, Y, on the outside of the case the rope may be grasped by the operator and the descent regulated or the device stopped at any desired point.

> Having thus described my invention, what I 90 claim as new is—

> 1. The combination of the two half-boxes A A with metal bands BB and screw-bolts CC, the two series of the pulleys D and D', with axes d d', sustained in the bands B, and 95the rope wound about the pulleys, substantially as shown and described.

2. The combination of the two half boxes A A with metal bands B B and screw-bolts C C, the two series of pulleys D D', with axes 100 d d' located in the bands, the rope wound around the pulleys, and a graduated indicator-plate attached to one of the half-boxes and adapted to register with the other halfbox to indicate the adjustment, substantially 105 as shown and described.

THOMAS BRICE.

Witnesses:

CHAS. T. BEACH, HARRY L. BROUGHTON.