

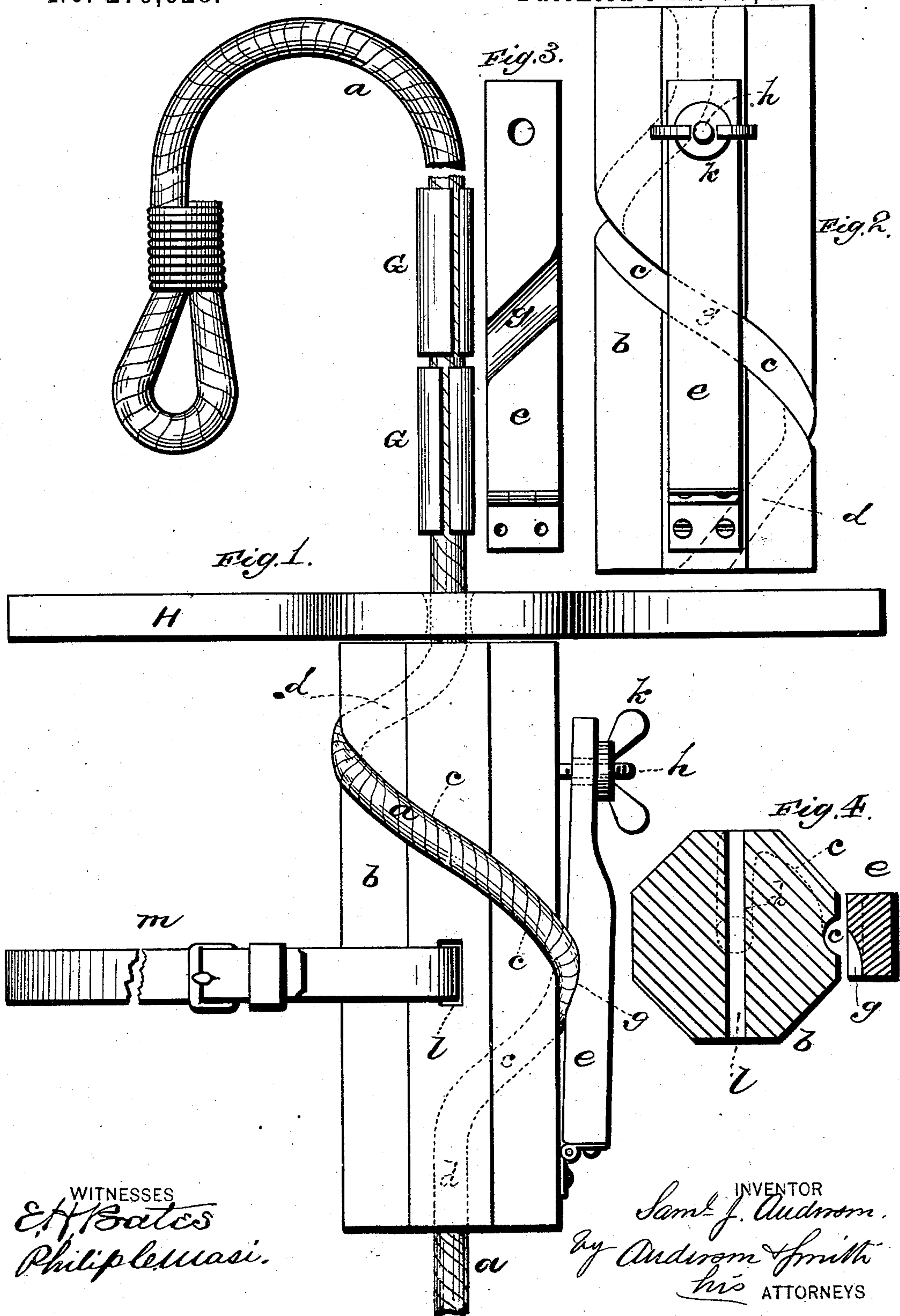
(No Model.)

S. J. ANDERSON.

FIRE ESCAPE.

No. 279,628.

Patented June 19, 1883.



N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

SAMUEL J. ANDERSON, OF CAZENOVIA, NEW YORK.

FIRE-ESCAPE.

SPECIFICATION forming part of Letters Patent No. 279,628, dated June 19, 1883.

Application filed February 24, 1883. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL J. ANDERSON, a citizen of the United States, residing at Cazenovia, in the county of Madison and State of New York, have invented certain new and useful Improvements in Fire-Escapes; and I do 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a side view of my fire-escape. Fig. 2 is a side view of the sliding block. Fig. 3 is a detail view of the brake, and Fig. 4 is a cross-sectional view.

This invention has relation to fire-escapes; and it consists in the construction and novel arrangement of devices, as will be hereinafter fully described, and particularly pointed out in the claims appended.

In the accompanying drawings, the letter *a* designates the rope, which is provided with a loop or eye or other common device for fastening its upper end to a hook secured within a window-casing or on the exterior.

b represents the slide-block, having an external spiral groove, *c*, the ends of which communicate with the oblique perforations *d*, which extend through the ends of the block. The slide-block engages the rope, which extends through the end perforations, *d*, and around the block in the spiral groove *c*. To the side of the block is hinged at one end a brake-bar, *e*, having an oblique recess or depression at *g*, to bear against that portion of the rope *a* which projects from the groove *c*. In the block is secured a screw, *h*, which projects laterally through a perforation in the free end of the brake-bar to receive its clamp-nut *k*, whereby the brake-bar is adjusted according to the frictional contact with the rope desired. Usually the adjustment is made so that the block will

slide on the rope under a weight of one hundred pounds; but this adjustment may be varied to suit the circumstances of the case. Through a transverse slot, *l*, in the block passes a leather strap or sling, *m*, which is designed to be secured about the person of a feeble or disabled individual, who can then be passed out of a window and allowed to descend on the rope in perfect safety.

H represents a centrally-perforated cross-bar, engaging the rope *a* above the slide-block *b*, and designed to bear on the upper end of said block.

G G are sections of cleft rubber tubing, forming friction-grasps engaging the rope *a* above the cross-bar, and serving to enable a person seated on the cross-bar to control the rapidity of his descent. These grasps are of especial importance, as they serve as a governing device when the adjustment of the friction-brake on the slide-block is such as to produce but little pressure on the rope, so that the block moves too freely under the weight on the cross-bar.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

1. A fire-escape having, in combination with a slide-block on the rope, a cross-bar on the rope bearing on the upper end of the slide-block, and friction-grasps on the rope above the slide-block, substantially as specified.

2. The combination, with a spirally-grooved slide-block on a rope and provided with an adjustable friction-brake, of a cross-bar on the rope above the block, and cleft rubber-tubing sections forming grasps above the cross-bar on the rope, substantially as specified.

In testimony whereof I affix my signature in presence of two witnesses.

SAMUEL J. ANDERSON.

Witnesses:

R. D. PHINNEY,
H. DE CLERCQ.