

(No Model.)

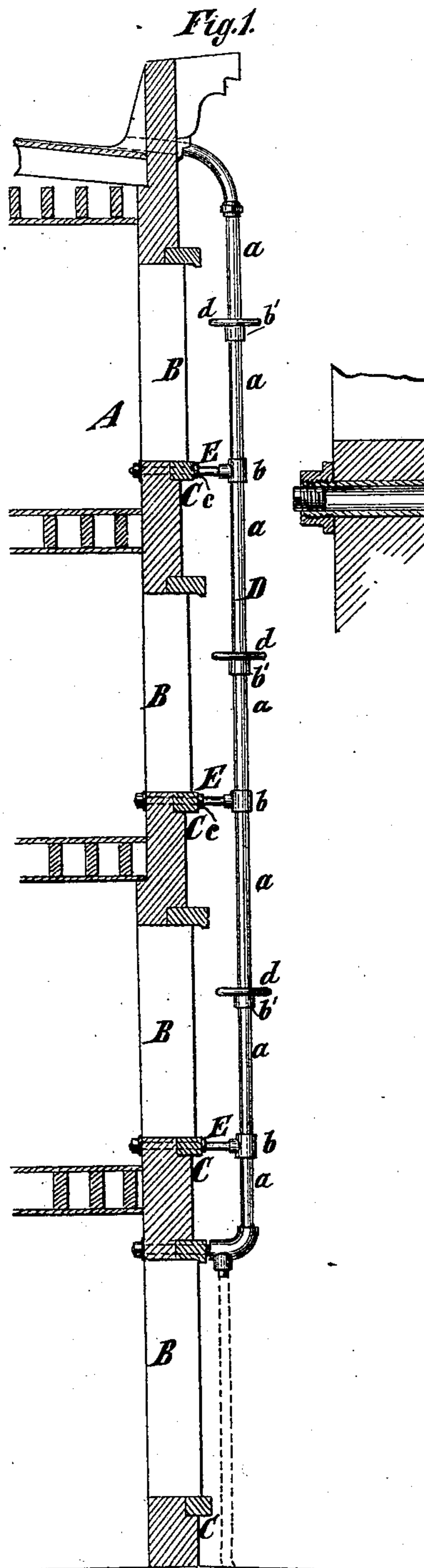
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H. A. LEE.

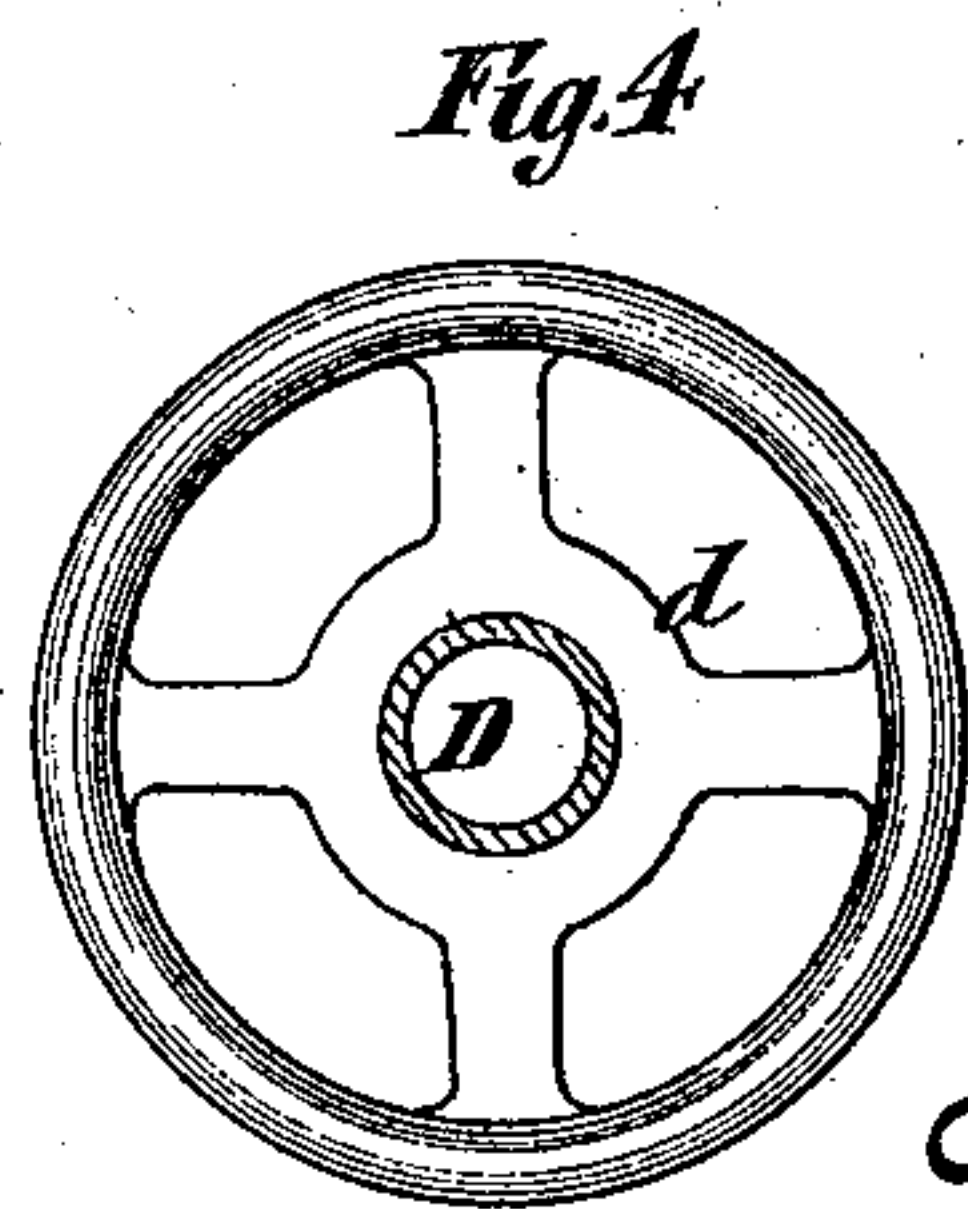
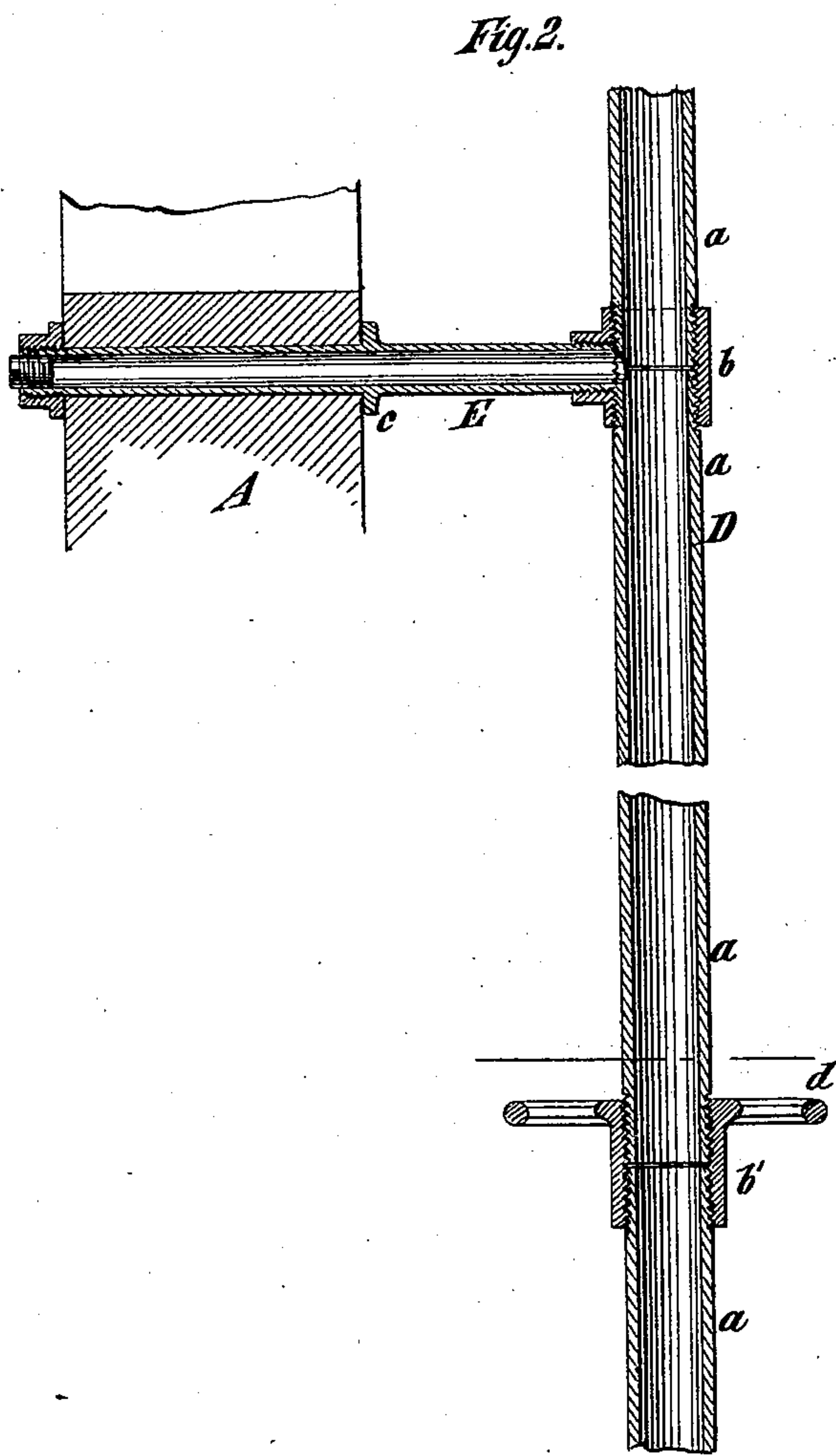
FIRE ESCAPE.

No. 261,002.

Patented July 11, 1882.



Witnesses { *J. H. Keane*
Edw. N. Moran



Inventor
Henry A. Lee
By his atty
Edwin H. Brown

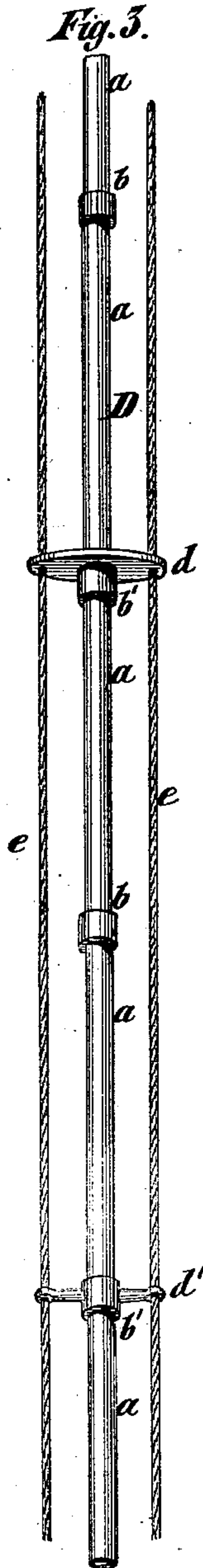
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2 Sheets—Sheet 2.

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FIRE ESCAPE.

No. 261,002.

Patented July 11, 1882.



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UNITED STATES PATENT OFFICE.

HENRY A. LEE, OF NEW YORK, N. Y.

FIRE-ESCAPE.

SPECIFICATION forming part of Letters Patent No. 261,002, dated July 11, 1882.

Application filed February 20, 1882. (No model.)

To all whom it may concern:

Be it known that I, HENRY A. LEE, of New York, in the county and State of New York, have invented a certain new and useful Improvement in Fire-Escapes, of which the following is a specification.

My improvement relates to that class of fire-escapes which severally consist of a post secured to the exterior of a building at such distance therefrom that persons may conveniently slide down it. Such posts are necessarily composed of sections; and my improvement consists in novel combinations, with the sectional post, of devices which connect the sections together and connect the post to the building and other devices attached to the post between the aforesaid connecting devices and serving as steps or resting-places for persons in descending, all as particularly hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a view of a face of a building having attached to it a post according to my invention. Fig. 2 is a view of a portion of the post on a larger scale. Fig. 3 is a front view of a modified form of post, and Fig. 4 is a horizontal section of the post and top view of one of the flanges or rings of the kind shown in Figs. 1 and 2.

Similar letters of reference designate corresponding parts in all the figures.

A designates one of the walls of a building. B designates windows in the same, and C designates the window-sills.

D designates a post, which may be made of any suitable material; and E designates cross-pieces which connect the post with the building. This post may be made of sections of pipe *a*, connected together by T-shaped couplings *b*, which also secure the sections to the cross-pieces. In this case the cross-pieces may also be made of sections of pipe. They may be screwed or driven into the building and provided with flanges *c*, which will prevent them from being forced too far into the wall of the building. Other couplings, *b'*, may be provided with flanges or rings *d* at the top, to afford resting-places in descending the post. In any case the post should be provided with flanges or like devices between the couplings *b* to serve as steps or resting-places in descending the post. If desirable, the post may be

circumferentially corrugated to retard the descent.

Persons whose escape by the stairways of a burning building is cut off can step out on a window-sill and grasp and slide down the post.

The post, when made of sections of pipe, may be utilized for conveying waste-water from the building to which the post is applied or for conducting to the building water for aiding in extinguishing a fire. The cross-pieces will in these cases enter the building. The post need extend only to within ten or twelve feet of the ground, as persons descending the post can without danger drop that distance to the ground. It will thus be prevented from being of service to burglars. For the same reason it need not extend to the roof. It may be connected at each end to the building, and an ordinary tin leader-pipe, P, may extend from it to the ground. Where, however, it is designed to have the additional function of a water-pipe, it may, if desirable, extend nearer to the ground.

The cross-pieces not only support the post, but keep it at such distance from the wall of the building as to make it more available and safe as a means of escape. They may be arranged outwardly ascending at an angle to enhance their strength.

In Fig. 3 I have shown one of the sockets *b'* as provided with an elliptical flange, *d*, and another of the sockets *b'* as provided with arms or bars *d'*. Hand ropes or rods of suitable non-combustible material are placed through openings in the flange *d* and the arms or bar *d'*, and serve to facilitate the descent of persons along the post. The post is the support of these hand ropes or rods, as here shown; but they may be independently connected to the building on which the post is used.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination, with a building, of a post made in sections, T-shaped couplings in which the adjacent ends of said sections are secured, cross-pieces also secured in said couplings and connecting the post with the exterior of the building at such distance therefrom that persons may slide down it, and flanges or like devices attached to the post, between said couplings, to serve as steps or resting-places, substantially as specified.

2. The combination, with a building, of the post D, composed of sections *a* of pipe, the T-shaped couplings *b*, connecting said sections, the cross-pieces E of pipe, also secured in said
5 couplings and connecting the post to the exterior of the building, adjacent to the sills of the window-openings thereof, and flanges or like devices attached to said post between said
10 couplings, to serve as steps or resting-places, substantially as specified.

3. The combination, with a building, of the post D, composed of sections, the T-shaped

couplings *b*, connecting said sections, the cross-pieces E, also secured in said couplings and connecting the post with the building, and the
15 couplings or sockets *b'*, secured upon the post intermediately between the couplings *b*, and provided with flanges or rings *d*, substantially as specified.

HENRY A. LEE.

Witnesses:

T. J. KEANE,
JAMES R. BOWEN.