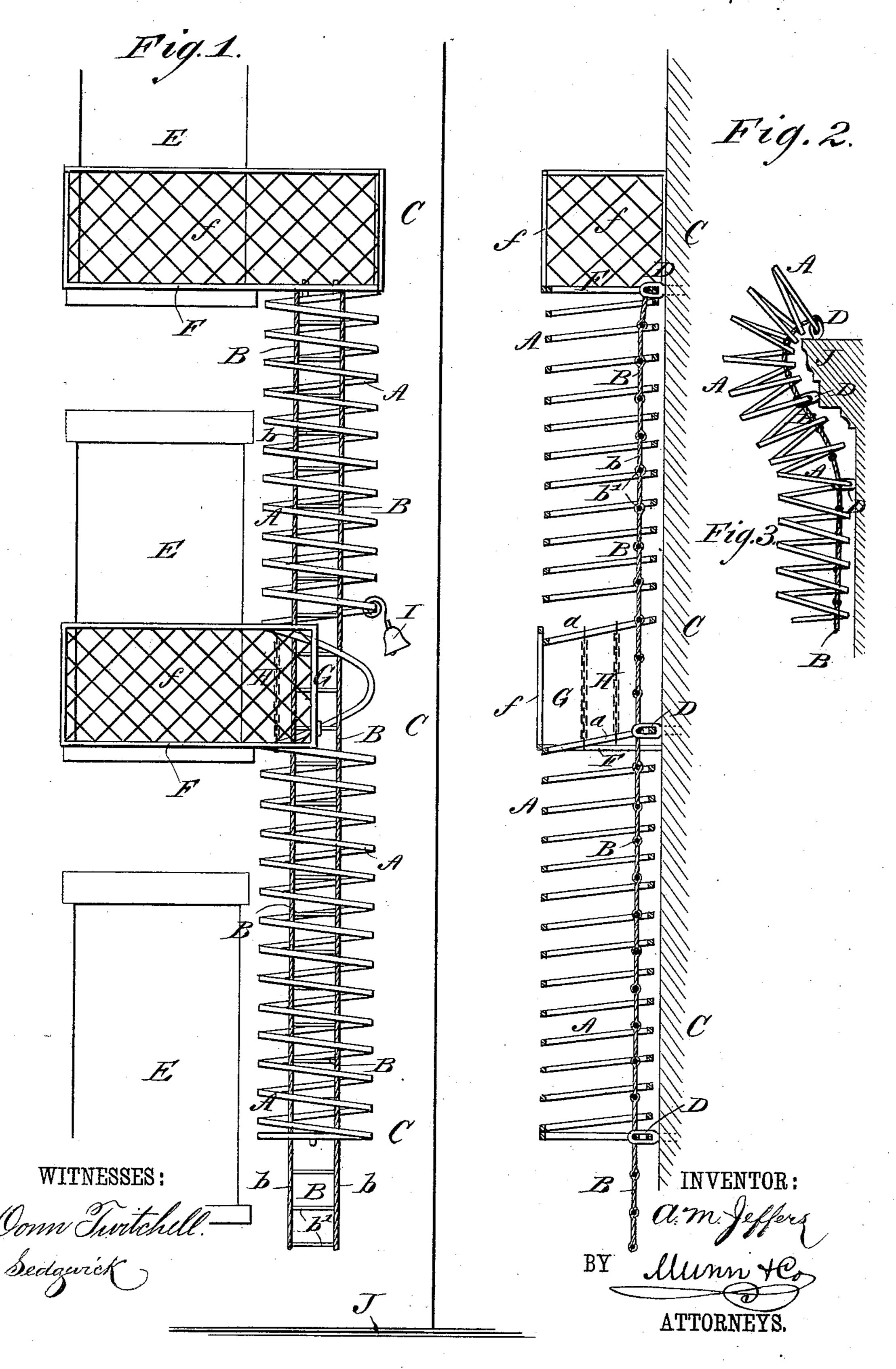
A. M. JEFFERS.

FIRE ESCAPE.

No. 334,230.

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United States Patent Office.

ANNIE M. JEFFERS, OF CHICAGO, ILLINOIS.

FIRE-ESCAPE.

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To all whom it may concern:

Be it known that I, Annie M. Jeffers, of Chicago, in the county of Cook and State of Illinois, have invented a new and Improved 5 Fire-Escape, of which the following is a full, clear, and exact description.

My invention has for its object to provide a simple and effective apparatus for attachment to a building to facilitate escape of the

10 inmates in case of fire.

The invention consists in a spiral structure ranging along the windows of a building and containing a ladder, and being stretched or opened opposite the windows, or the ends of platforms secured thereat, and provided with safety-chains at said openings, and provided also with an alarm-bell, all as hereinafter fully described and claimed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate cor-

responding parts in all the figures.

Figure 1 is a front view of part of a building with my improved fire-escape erected thereon. Fig. 2 is a central vertical sectional elevation of the fire-escape, and a vertical section of part of the wall of the building; and Fig. 3 is a detail view illustrating how the spiral structure and ladder of the fire-escape may be extended around the eaves of a building to its roof.

The letter A indicates a spiral structure made of a rod or bar—or it may be a wire rope—and in the open coil form shown clearly in the drawings. Within this spiral structure A is placed the ladder B, which also is made preferably of metal, and it may be with parallel side parts, bb, made of wire rope and connected by rods b', which form the rounds of the ladder. The spiral structure A, and also the ladder B within it, are held to the wall C of the building by the eyebolts D, so that the parts A B range up and down the building alongside of the windows E of its several stories or floors.

At each of the upper stories of the building, at or below the window E, I provide a platform, F, which may have any approved construction, and will have a balustrade or hand-struction, f. As shown in Figs. 1 and 2, the platform F at the upper floor of the building extends over the top of the spiral structure A

and has a suitable opening thereto, and at each of the lower floors to the second story the spiral will be drawn open or its strands or 55 coils stretched apart directly opposite or alongside of the ends of the platforms F of said lower floors to provide a space, G, sufficiently wide to allow persons to pass through the spiral to and from said platforms, which extend quite to the center of the spiral structure A, as shown in Fig. 1.

To the parts or coils a a of the structure A above and below the open spaces G of the spiral are connected loosely a number of chains, 65 H, preferably four, said chains serving to close the spaces G, except when the fire-escape is to be used, at which time the chains may readily be slid together, or to one side, to allow persons to pass to and from the spiral structure 70 A through space G to or from the adjacent platform F. A bell, I, is hung by elastic connection or otherwise to the spiral structure A, about at the center of said structure, which is somewhat flexible or springy and yielding, 75 so that the bell will be rung by persons using the ladder B, as their weight will shake the structure A, to which the bell is attached; hence the bell will serve not only to indicate the location of the fire-escape to the inmates 80 of the building, but will serve also to notify them of the presence of burglars or other unauthorized persons who may attempt to use the ladder B to enter the building. The lower end of the ladder may reach quite to the 85 ground J, or some little distance below the lower end of the spiral structure A, as shown; but, if desired, the lower end of the ladder

It is evident that the spiral structure A and the ladder B therein may be used without the platforms F at the windows, the spiral A in this case running some distance above the sill of the upper window, and being stretched or opened thereat, as at G, to allow persons to enter it to the ladder directly from the windows at every floor; but the use of the platforms F is preferred, as they give greater 100 safety to timid persons.

may be turned upward and fastened to the

spiral A by any connection which may readily 90

In Fig. 3 is shown how the spiral structure A and the ladder B may be extended to and bent around the eaves J of the building and

be fastened thereat by eyebolts D, so as to allow the escape of persons down the ladder and spiral structure from the roof of the

building.

A stationary water or hose pipe (not shown) may, if desired, be fixed to the wall of the building between the spiral structure A and the windows E of the several floors, and may have nozzles arranged in any approved way, 10 allowing connection of hose to be run in through the windows to any floor, as required.

Having thus fully described my invention, I claim as new and desire to secure by Letters

Patent—

1. A fire-escape comprising a spiral structure, A, and a ladder, B, arranged therein and secured to a building, substantially as herein set forth.

2. A fire-escape comprising a spiral struct-20 ure, A, and a ladder, B, arranged therein alongside of the windows of the building, and said spiral structure being stretched or opened at the windows to provide spaces, as at G, for entrance and exit of persons to and from the 25 ladder, substantially as herein set forth.

3. A fire-escape comprising a spiral structure, A, and a ladder, B, arranged therein and extended to and around the eaves of a building to its roof, substantially as herein set

30 forth.

4. A fire-escape comprising a spiral structure, A, and a ladder, B, arranged therein along-

side of the windows of a building, and extended around the eaves to the roof, and said spiral structure being stretched or opened at the 35 windows to provide spaces, as at G, for entrance and exit of persons to and from the ladder, substantially as herein set forth.

5. In a fire-escape comprising a spiral structure, A, and a ladder, B, arranged therein, and 40 said spiral being stretched or opened to provide spaces at G, substantially as specified, the combination, with the spiral at the spaces, of the slip-chains H, substantially as and for

the purposes herein set forth.

6. A fire-escape comprising a spiral structure, A, and a ladder, B, arranged therein and secured to a building alongside of the windows, and said spiral being stretched or opened to provide spaces at G, substantially as specified, and platforms, as at F, extending from the windows to the spiral structure, substantially as herein set forth.

7. In a fire-escape comprising a spiral structure, A, and a ladder, B, arranged therein and 55 secured to a building, substantially as specified, the combination, with the spiral, of an alarm-bell, as at I, substantially as herein set

forth.

ANNIE M. JEFFERS.

Witnesses:

E. Johnson, Thos. F. Dougherty.