

(No Model.)

J. GRIESENAUER.

FIRE ESCAPE.

No. 289,908.

Patented Dec. 11, 1883.

Fig. 1.

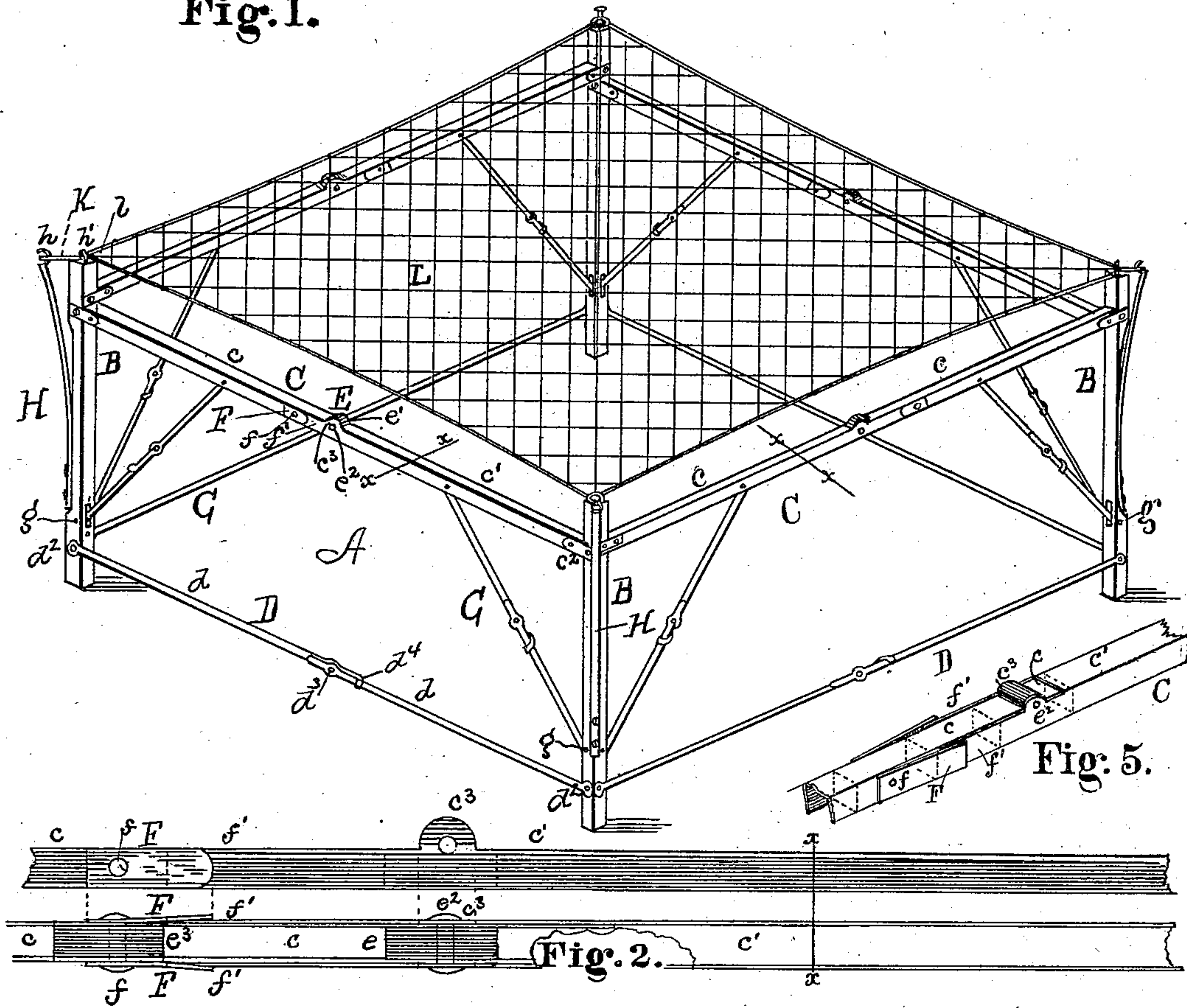


Fig. 5.

Fig. 2.

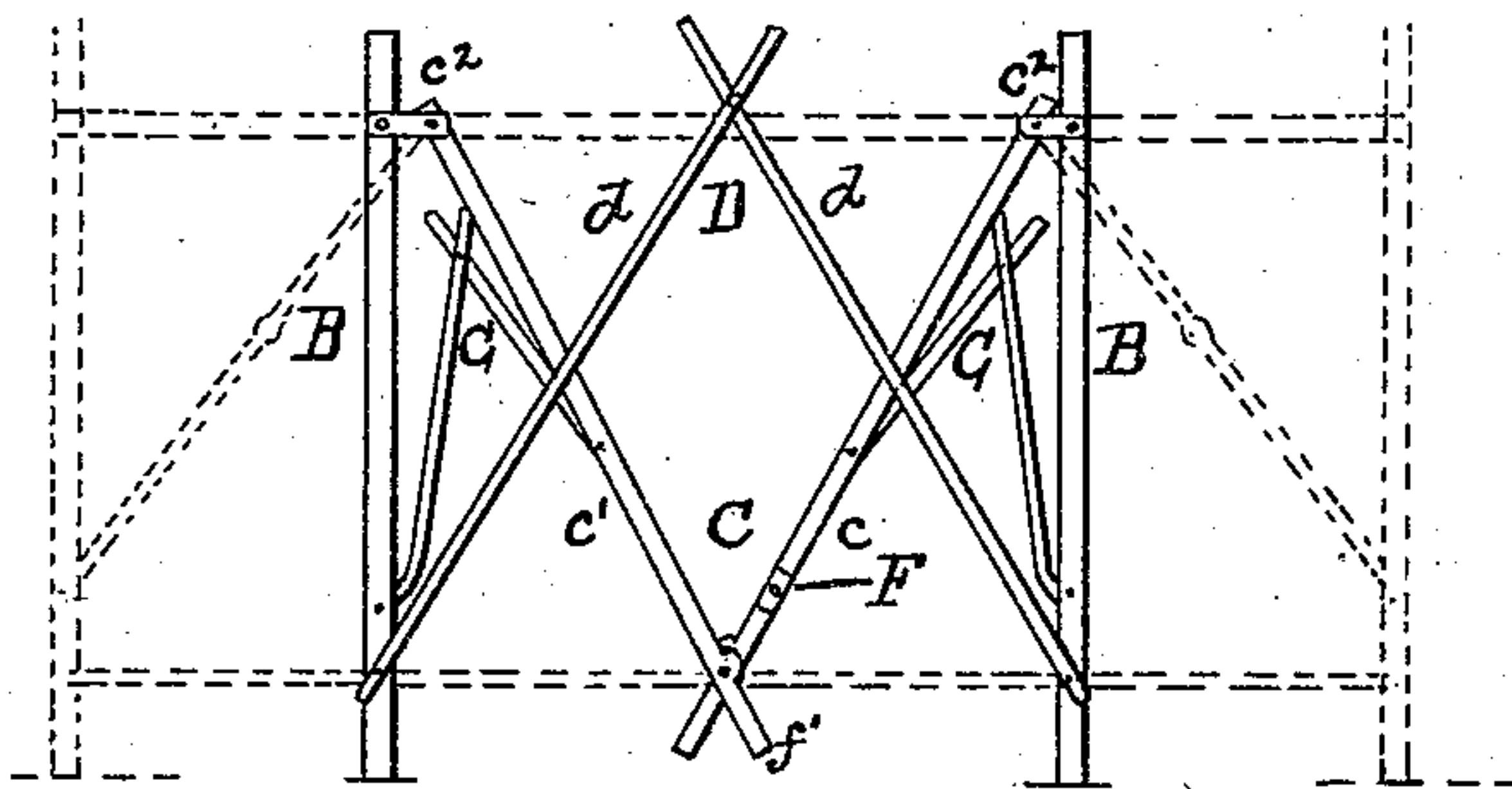


Fig. 4.



Fig. 3.

WITNESSES

Geo. F. Graham
James H. Redding

INVENTOR

John Griesenauer.
per Voorhees & Singleton
Attys.

UNITED STATES PATENT OFFICE.

JOHN GRIESEN AUER, OF DARDENNE, MISSOURI.

FIRE-ESCAPE.

SPECIFICATION forming part of Letters Patent No. 289,908, dated December 11, 1883.

Application filed July 23, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOHN GRIESEN AUER, of Dardenne, in the county of St. Charles and State of Missouri, have invented certain new and useful Improvements in Fire-Escapes; and I do hereby declare that the following is a full, clear, and exact description of my invention, which 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 the letters of reference marked thereon, which form a part of this specification.

Figure 1 is a perspective view; Fig. 2, an enlarged side and bottom view of the side rails; Fig. 3, a transverse section on the line $x x$; Fig. 4, an elevation of one side, showing the position for folding the apparatus together. Fig. 5 is a detailed perspective.

This invention relates to improvements in apparatus to be used for enabling persons to be safely rescued from burning buildings.

The object of the invention is to produce a device which can be easily carried and readily put in position for use.

The invention consists in the construction hereinafter set forth.

In the annexed drawings, the letter A indicates the device, made, preferably, square for convenience. B are the "corner-posts," connected by the top side rails, C, and bottom side rails, D.

The rails C consist of two sections, $c c'$, hinged to the posts at c^2 , and hinged together at the middle of the rail by the joint E. These rails C are made of channeled metal, as shown by the cross-section, Fig. 3. In this channel, at the joint E, stiffening-blocks e are placed in the section c' , and said sections are provided at this point with knuckles e' , through which and embracing ears e^3 on sections c' the joint-bolt e^2 passes. In the same section, c , behind the blocks e , similar blocks, e^3 , are placed, through which pass bolts f , securing pieces F to said sections, which lap the projecting ends f' of the section c' , holding the two sections of the rail C in firm relation.

The rails D consist of two sections, $d d$, hinged to the posts B at d^2 , and hinged together at

the middle of the rail by a pin, d^3 , one section having a hook, d^4 , which engages the other section, holding the two aligned. Each rail C is connected to each post B by a brace, G, which is hinged to the rail and to the post, and has a joint in the middle similar to the joint in the rails D. These braces are hinged within the channel of the rails C, and their lower ends engage slots in the posts, in which they are pivoted by pins g .

Secured near the lower end of each post B, at its outside end, is a plate-spring, H, which extends upward and terminates in a hook, h , at its free end, near the top of the post, to which top is secured a ring or eye, h' . Secured to these hooks h are cords K, which pass through to the eyes h' , and are attached to the four corners l of a net or sheet, L, extending over the frame, as shown.

In use the device is to be extended, as shown in Fig. 1, and is to be placed within convenient jumping distance of the burning building. It can be made of any desired size and height.

As any one jumps upon the net or sheet the material yields, relieving the shock of the impact. At the same time the pull on the cords K is resisted by the springs H, which thus assist in relieving the shock.

The device can be readily folded for transportation by opening the various joints and folding the frame together, as clearly shown in Fig. 4, the braces G fitting into the channeled side rails, C.

This forms a simple and quickly used device, easy of transportation, and rapidly put in place.

Having described my invention, what I claim is—

1. The folding frame A, provided with legs B, and the sheet L, in combination with springs H, secured at one end to such legs and at the other end to the sheet, as set forth.

2. The folding frame A, provided with legs B and loops h' , and the sheet L, in combination with the springs H, secured to the legs at their lower ends, and attached to the sheet by cords K, which pass through the loops h' , as set forth.

3. The posts B and jointed side rails, D C, in combination with the jointed braces G, as set forth.

4. The sections c, having the knuckle c', and the pieces F, in combination with the sections c', having the ears c³ and the projecting ends f', as set forth.

In testimony that I claim the foregoing as my own I hereunto affix my signature in presence of two witnesses.

JOHN GRIESEN AUER.

Witnesses:

PETER ROB,

GUSTAVE HACKMANN.