

(No Model.)

H. B. CHURCH.

FIRE ESCAPE.

No. 283,968.

Patented Aug. 28, 1883.

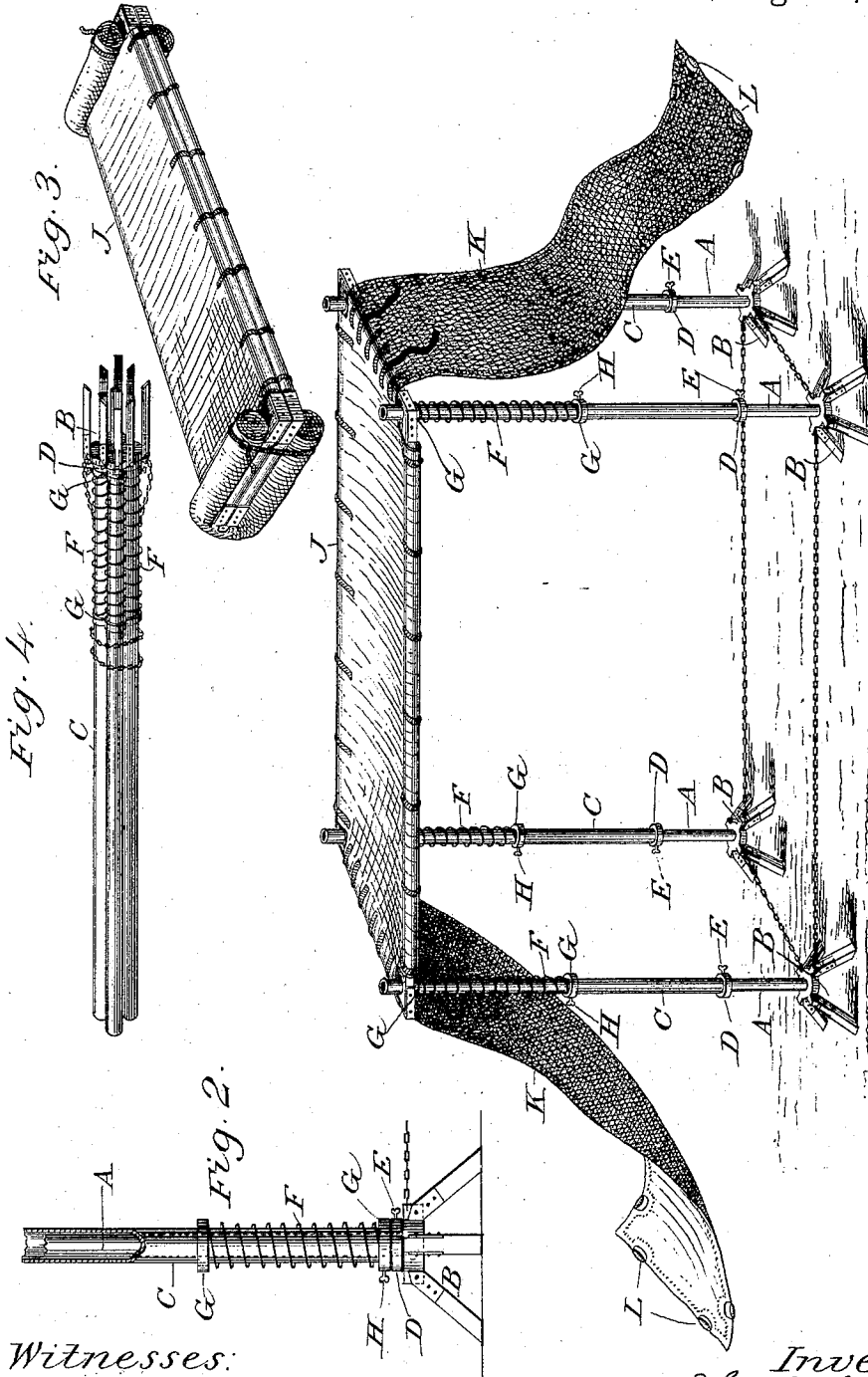


Fig. 4.

Fig. 3.

Fig. 2.

Fig. 1.

Witnesses:

A. S. Hall
 B. F. Lockwood

Inventor:
 H. B. Church
 By Munn & Co
 Attorneys

UNITED STATES PATENT OFFICE.

HENRY B. CHURCH, OF GRAND RAPIDS, MICHIGAN.

FIRE-ESCAPE.

SPECIFICATION forming part of Letters Patent No. 283,968, dated August 28, 1883.

Application filed April 2, 1883. (No model.)

To all whom it may concern:

Be it known that I, HENRY B. CHURCH, of Grand Rapids, in the county of Kent and State of Michigan, have invented a new and useful
5 Improvement in Fire-Escapes, of which the following is a full, clear, and exact description, reference being had to the annexed drawings, forming part of this specification.

This invention relates to the class of fire-escapes in which a sheet or other suitable fabric is spread and supported on springs to receive a person jumping from a window or house-top; and the invention consists of the novel construction hereinafter described and
15 claimed.

In the drawings, Figure 1 is a perspective view of my improved fire-escape. Fig. 2 is a detail view, partly broken away; and Figs. 3 and 4 are perspective views, showing the device done up in bundles for transportation.
20

B indicates four standards or blocks, having pivoted brace-legs B², and connected together by chains B'. To these standards are secured upright posts, consisting of the gas-pipes A, rigidly secured thereto, and the gas-pipes C,
25 inclosing and adapted to slide up and down the pipes A. The pipes C are provided with collars D and set-screws E at their lower ends, which screws are adapted to be set against the pipes A, to support the pipes C at any desired
30 height thereon. On the pipes C are adjustable collars G, having set-screws H, and to these collars are connected coil-springs F, which surround the pipes C, and are provided with bearing-collars G' at their upper ends, for
35 supporting in an elastic manner the canvas frame J. This frame is provided at its four corners with holes for receiving the upper ends of the pipes C, and is adapted to slide up
40 and down the said pipes.

To opposite ends of the canvas frame are secured canvas aprons K, having handles L at their lower ends, by which they are to be held by persons standing on the ground. The person being rescued from a burning building is
45 to jump on the canvas frame J, which is to be adjusted at a suitable height for the purpose, and then slide down one of the aprons K, which is to be held in an inclined position to break the descent.
50

The frame J may be made in two hinged sections, as shown in Fig. 3, to adapt the same to be folded in small compass for transportation. The aprons K are to be rolled up, as shown in Fig. 3. When the frame J is removed, the
55 posts may be tied in a bundle, as shown in Fig. 4.

What I claim is—

1. The combination, with the supporting posts and springs, of the canvas frame having the aprons K, provided with handles L,
60 and adapted to be held in an inclined position by persons standing on the ground, substantially as shown and described.

2. The combination, with the extensible posts formed of pipes A C, of the canvas frame J, having holes at the corners to receive the pipes C, and the adjustable springs F, having bearing-collars G', and collars G and screws H
65 for adjusting said springs on the pipes C, substantially as shown and described.
70

3. The combination, with the posts and canvas frame J, of the standards B, having pivoted brace-legs B² and connecting-chains B', substantially as shown and described.

HENRY B. CHURCH.

Witnesses:

ABRAM S. HALL,
HORTON H. DRURY.