

(No Model.)

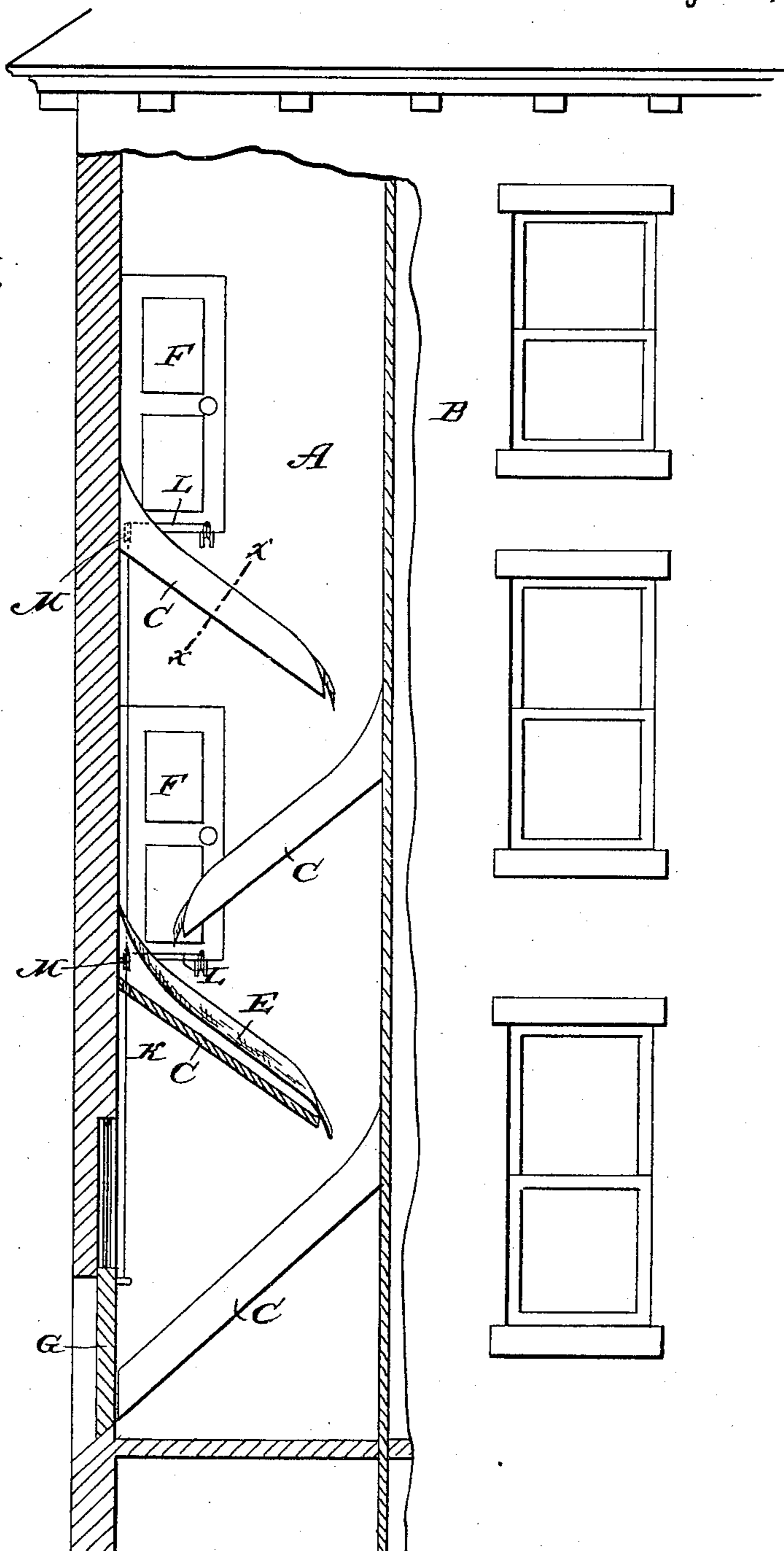
H. GOLLINGS.

FIRE ESCAPE.

No. 323,140.

Patented July 28, 1885.

Fig. 1.



WITNESSES:

Wm. B. Meyer
C. Sedgwick

Fig. 2.



INVENTOR:

H. Gollings

BY

Munn & Co.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

HENRY GOLLINGS, OF BELTZHOOVER, PENNSYLVANIA.

FIRE-ESCAPE.

SPECIFICATION forming part of Letters Patent No. 323,140, dated July 28, 1885.

Application filed June 4, 1885. (No model.)

To all whom it may concern:

Be it known that I, HENRY GOLLINGS, of Beltzhoover, county of Allegheny, Pennsylvania, have invented a new and Improved
5 Fire-Escape, of which the following is a full, clear, and exact description.

This invention relates to certain new and useful improvements in fire-escapes which are permanently fixed in a special fire-proof shaft
10 in a building.

The invention consists in a fire-escape formed of a series of ways or chutes arranged in a shaft, one above the other, and inclined in opposite directions.

15 The invention also consists in the combination of parts, as will be fully set forth hereinafter.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate
20 corresponding parts in both figures.

Figure 1 is a vertical sectional view of my improved fire-escape. Fig. 2 is a detail cross-sectional view of one chute on the line *x x*,
25 Fig. 1.

In a vertical shaft, A, on the inside or outside of the building B the fire-escape is erected, and it consists of a series of inclined ways or chutes, C, which are secured to the walls or
30 arranged between them, and are alternately inclined in opposite directions, the lower end of one chute being a short distance above the upper end of the next lower chute. Two chutes, C, are provided for each story, one
35 extending from the floor to the middle of the next story below, and the other extending from the middle of the said story to the floor below, and so on. The chutes have their upper surfaces hollowed out or recessed, and
40 a piece, E, of carpet, canvas, or other strong fabric is secured to the sides of the chutes at their top edges, so as to form an elastic support. At each floor a door, F, is provided, which opens from the shaft and is arranged at
45 the upper end of the chute, extending down from the floor. At the lower end of the bottom or lowest chute, C, a vertically-sliding door, G, is arranged to slide in a suitable recess in the wall, and the said door is connect-
50 ed with a thin cable or wire, K, extending

upward on the side of the shaft and connected by a wire, L, passing over a pulley, M, with the swinging edge of each door F. By opening any one of the doors F the wire K is pulled
55 upward and the door G is raised. The persons step from the floor upon a chute, C, and slide down the same alternately in opposite directions, and are landed on the ground. If desired, a sliding piece may be arranged on the bottom chute, C, in such a manner that
60 when the door is raised the said piece will slide out and form a continuation of the bottom chute.

In place of arranging the door in the manner shown, it may be hinged at its bottom edge; 65 or it may hang on a transverse bar about one-third of its height from the bottom in such a manner that the upper part can swing outward and downward to form a continuation of the chute, and the bottom edge can swing inward
70 and under the carpet or canvas E.

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

1. In a fire-escape, the combination, with the inclined ways or chutes C, having their
75 tops recessed, of the fabric E, secured on the sides of the same at the top, substantially as herein shown and described.

2. A fire-escape consisting of a series of ways or chutes arranged one below the other in a
80 fire-proof vertical shaft and inclined alternately in opposite directions, substantially as and for the purpose set forth.

3. In a fire-escape, the combination, with the inclined chutes C, of a vertically-sliding
85 door, G, at the bottom of the lowest chute, the doors F, the wire K, and wires L, connecting the wire K with the several doors, substantially as herein shown and described.

4. In a fire-escape, the combination, with
90 inclined chutes arranged in a shaft, of doors leading from the several floors into the shaft, a door at the bottom of the lowest inclined chute, and of wires connecting the said door with the doors at the several floors, substan-
95 tially as herein shown and described.

HENRY GOLLINGS.

Witnesses:

FOREST WALER,
GEORGE FRITZ.