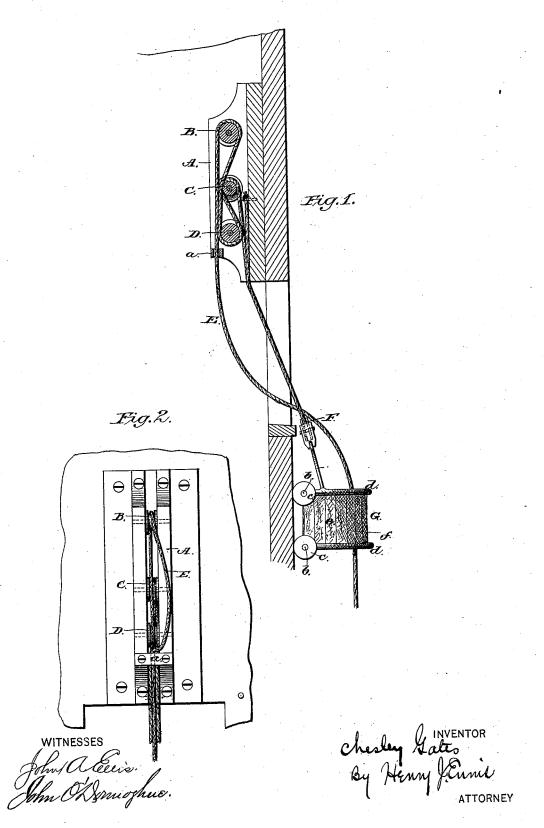
C. GATES. Fire-Escape.

No. 209,555.

Patented Nov. 5, 1878.



UNITED STATES PATENT OFFICE.

CHESLEY GATES, OF INDEX, MISSOURI, ASSIGNOR OF ONE-HALF HIS RIGHT TO WILLIAM KING, OF SAME PLACE.

IMPROVEMENT IN FIRE-ESCAPES.

Specification forming part of Letters Patent No. 209,555, dated November 5, 1878; application filed September 18, 1878.

To all whom it may concern:

Be it known that I, CHESLEY GATES, of Index, in the county of Cass 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 the 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 letters of reference marked thereon, which form a part of this specification.

Figure 1 is a sectional elevation of a fireescape embodying the improvements in my invention, and Fig. 2 is a front elevation of the frame, pulleys, and rope that are employed to

operate the escape-car.

This invention has relation to fire-escapes; and it consists in the improvements in the construction of the same hereinafter fully described, and particularly pointed out in the claim.

In the accompanying drawings similar letters of reference indicate corresponding parts

in the figures.

A frame, A, carrying the pulleys B, C, and D, is secured to the inside of the building above the window. The rope E, commencing where it is secured to the base of the frame A, passes down the base around the block F, up again over the central pulley, C, down under the lower pulley, D, up against the central pulley, C, over the upper pulley, B, down through a hole in the cross-bar a at the lower part of the frame A, where, when not in use, it may be coiled upon the floor.

The car G is composed of two axles, b b, provided with wheels c c, each provided with a semicircular iron frame, d d. The only connection between the axles and frames is the canvas or webbing e, which forms a basket, f, open at the top only when extended. This construction admits of folding the car or basket into a small compass when not in use.

The wheels run against the wall on the outside of the house, and the axles are made sufficiently long to permit the wheels to straddle a window. The wheels also prevent the car from stopping in case it meets a projection in the wall either in ascending or descending.

In order to operate the escape the car should be placed upon the outside of the window and the end of the rope thrown out upon the ground, where it can be operated either by the people on the ground or by the persons in the room from which it is to descend. It is only necessary for some person in the car or some one on the ground to grasp and hold the rope, when the car can be either lowered or raised with great ease, thus enabling parties to escape from the burning building in which this fireescape is employed.

The canvas connecting the axles and frames of the car permits it to be folded when not in

use.

The utility and cheapness of the invention are obvious.

Having thus described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

by Letters Patent of the United States, is—
In a fire-escape, the frame A, provided with the free pulleys B and D, having the friction-pulley C placed between them, in combination with the rope E and the semicircular collapsible carriage G, having the hinged handle and rims dd, connected by flexible fabric f, and further provided with the wheels cc, the whole constructed and operating substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I hereby affix my signature in pres-

ence of two witnesses.

CHESLEY GATES.

Witnesses:

A. S. O'BANNON, D. B. WASHINGTON.