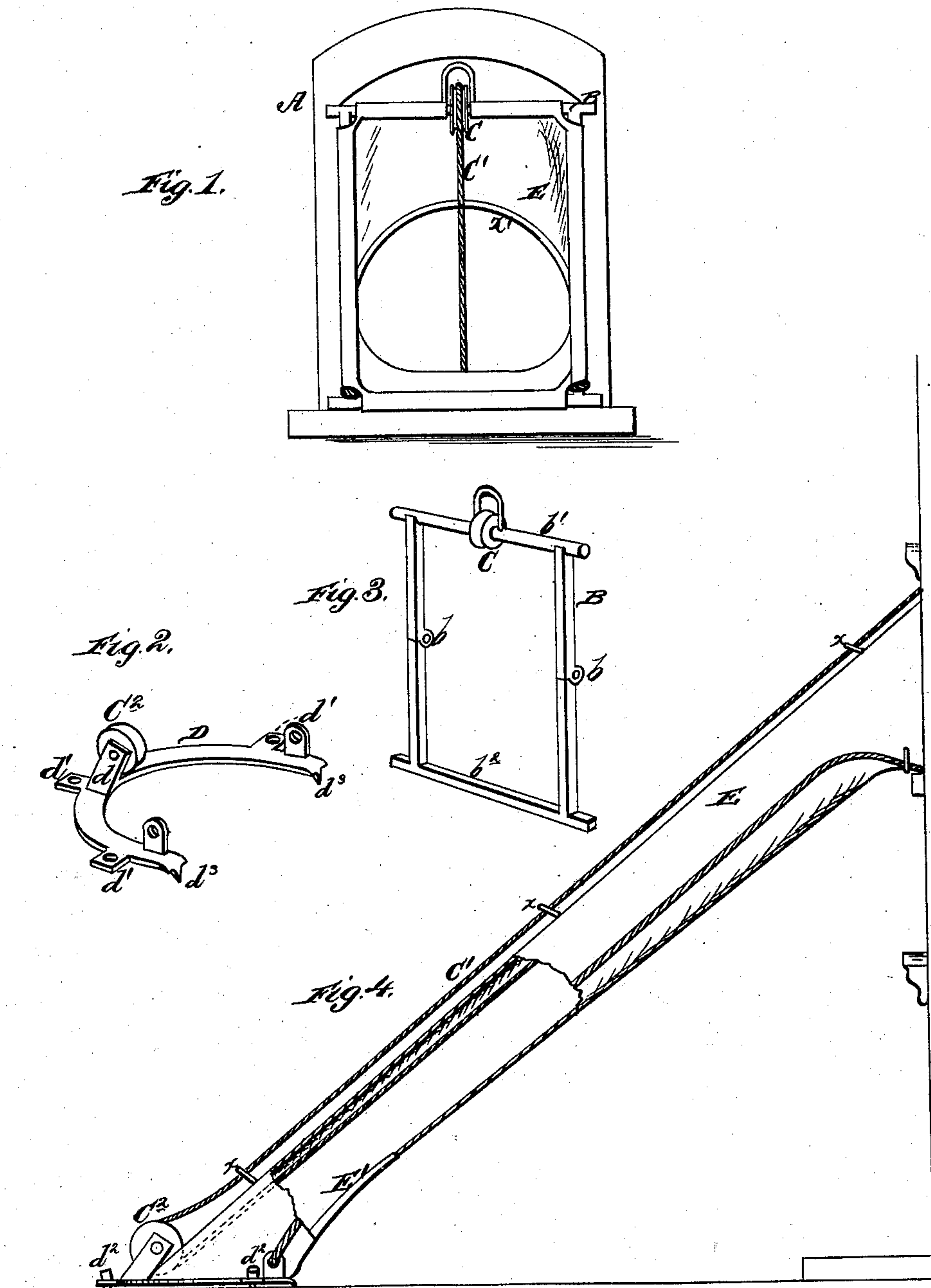


C. PFEFFERLE.  
Fire-Escape.

No. 217,142.

Patented July 1, 1879.



WITNESSES  
Robert Everett  
H. Clay Smith

INVENTOR.  
Charles Pfefferle.  
By Gilmore, Smith & Co.  
ATTORNEYS.

# UNITED STATES PATENT OFFICE.

CHARLES PFEFFERLE, OF SIDNEY, OHIO.

## IMPROVEMENT IN FIRE-ESCAPES.

Specification forming part of Letters Patent No. **217,142**, dated July 1, 1879; application filed June 7, 1879.

*To all whom it may concern:*

Be it known that I, CHARLES PFEFFERLE, of Sidney, in the county of Shelby and State of Ohio, have invented a new and valuable Improvement in Fire-Escapes; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a face of my fire-escape, and Figs. 2 and 3 are detail views of the same. Fig. 4 is a longitudinal central sectional view.

My invention relates to a fire-escape through which persons, goods, &c., may be transported from a burning building to the ground; and the invention consists of a chute, the upper end of which is secured in a window by a hinged frame, the upper horizontal bar of which carries a pulley, the lower end being secured to the ground by a curved frame having toes or points which enter the ground, and ears through which pass securing-spikes, said frame also carrying a pulley, over which and the upper pulley an endless rope passes to assist in descent, as will be fully hereinafter described, and particularly pointed out in the claims.

Referring to the drawings, A represents the window-frame. B represents a hinged frame, the hinge *b* being near or at the center, and it has cross-bars *b*<sup>1</sup> and *b*<sup>2</sup> above and below, of

greater length than the width of the window, and adapted to operate upon the inner surfaces of the window-frame.

The upper cross-bar, *b*<sup>1</sup>, has a pulley, C, over which operates an endless rope, C<sup>1</sup>, which rope passes over a pulley, C<sup>2</sup>, journaled in standards *d* in the ground-frame D.

*x x* represent rings or guides secured to the outer surface of a tube, E, of canvas or other suitable material; and *x'*, a supporting-hasps.

The ground-frame D has ears *d*<sup>1</sup>, adapted to receive pegs *d*<sup>2</sup>, and projections *d*<sup>3</sup>, adapted to be sunk in the ground.

At a sufficient distance from the ground an aperture, E', in the tube or chute allows egress.

What I claim as new, and desire to secure by Letters Patent, is—

1. The upper frame, B, hinged at *b* and having cross-bars *b*<sup>1</sup> *b*<sup>2</sup>, the former of which has pulley C, in combination with endless rope C<sup>1</sup> and ground-pulley C<sup>2</sup>, as and for the purpose set forth.

2. The chute E E', combined with the frame B *b*, pulleys C C<sup>2</sup>, ground-frame D *d* *d*<sup>3</sup>, and endless rope C<sup>1</sup>, as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

CHARLES PFEFFERLE.

Witnesses:

H. H. SPRAGUE,  
ALEX. RAMSAY.