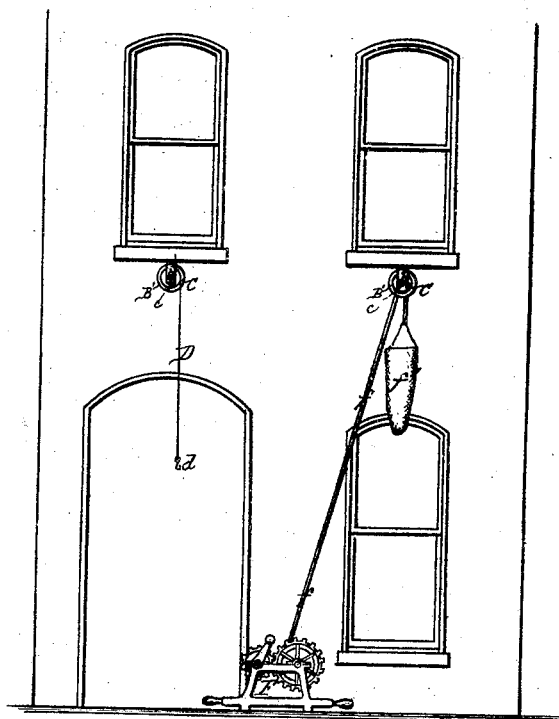


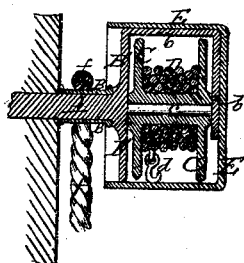
*J. Hoeflinger,*  
*Fire Escape.*

*No. 113667.*

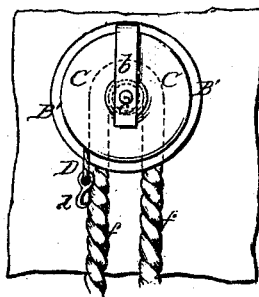
*Patented Apr. 11. 1871.*



*Fig. 1.*



*Fig. 2.*



*Fig. 3.*

*Witnesses:*

*J. W. Kerthel,*

*Robert Burns.*

*Inventor.*

*Joseph Hoeflinger*  
*by his atty*  
*Kerthel & Co*

# UNITED STATES PATENT OFFICE.

JOSEPH HOEFLINGER, OF CARROLLTON, MISSOURI.

## IMPROVEMENT IN FIRE-ESCAPES.

Specification forming part of Letters Patent No. **113,667**, dated April 11, 1871.

### *To all whom it may concern:*

Be it known that I, JOSEPH HOEFLINGER, of Carrollton, in the county of Carroll and State of Missouri, have made certain new and useful Improvements in Fire-Escapes; and I do hereby declare that the following is a full and clear description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention relates to fire-escapes for the rescue of persons prevented from the ordinary means or ways of an exit from buildings in case of fire and emergencies of a similar nature; and the nature of this invention consists in securing in the wall of buildings, below the lower sills of windows, a projecting bar incased by a roller, and in connecting to said bar, at its end, a pulley having cord or chain attachment, said devices and attachments to be used in connection with a hoisting drum, rope, or chain, and bag or net appendages, as now to be more fully described.

To enable those herein skilled to make and use my said invention, I will now more fully describe the same, referring to the accompanying Figure 1 as a front elevation, showing my said apparatus in practical use, to Fig. 2 as an enlarged sectional side elevation of the projecting bar and its roller and cord attachments incased when not in use, and to Fig. 3 as a front view of the pulley device.

A is a round bar of iron, permanently secured in the wall immediately below the lower sill of any or all the windows of a building. Said bar is made to project from the wall, and incased by a metallic roller, B, as shown in Fig. 2. At the end of the bar is welded, bolted, or secured firmly in any ordinary manner, a disk, B', similarly secured to said disk on top the angle end bar, *b*, forming the frame or block for the pulley C, said pulley, revolving around the axis *c*, serving also as a connecting-link, as indicated in Figs. 2 and 3. Around the pulley C a cord or rope or chain attachment, D, is wound, one end of which is secured to said pulley, the other end having a hook, *d*, Figs. 1, 2, and 3. The rope or cord

or chain D should be long enough to reach to the ground or bottom of the house. When not in use, the cord attachment D is wound around the pulley, and the same is suitably incased by a casing, E, Fig. 2, thus protecting and otherwise shielding the operative devices from the effects of the weather.

In the practical application of my said improvements, the same is used in connection with an ordinary hoisting-drum or windlass, F, Fig. 1. The rope or chain attachment *f* of said drum should be twice as long as the elevation of the lower sill of the highest window in the building. To one end of said rope *f* is secured in a proper manner a bag, sack, or net, *f'*, Fig. 1.

The operation of parts thus constructed and used in connection with the drum F is therefore as follows: The person in order to effect escape withdraws the casing E and lets down the rope, chain, or cord D. Below said rope D is fastened to the rope and bag attachments *f f'*. The drum F is unwound, and the person above draws up rope and bag. By next placing said rope and bag attachments *f f'* over the roller B of the projecting bar A, and stepping into it, the bag or net *f'* is let down by the operators at the drum below.

My said improvements are simple and cheap in construction, and practically effective in affording an exit from the windows of a building with perfect safety and dispatch.

Having thus fully described my said invention, what I claim is—

The projecting bar A, roller B, disk B', end bar, *b*, link *c*, pulley C, cord or rope or chain attachment D, casing E, when combined and arranged below the sills of buildings, and operated substantially as and for the purpose described.

In testimony of said invention I have hereunto set my hand.

JOSEPH HOEFLINGER. [L. S.]

Witnesses:

WM. F. JACOBS,  
J. O. DWYER.