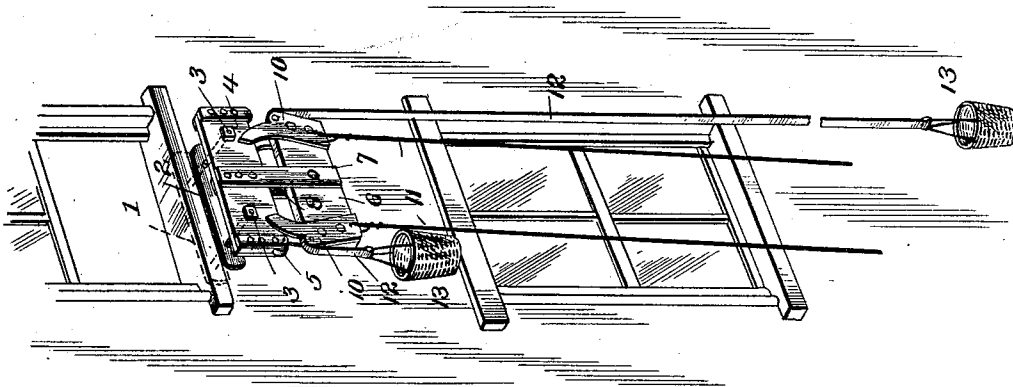
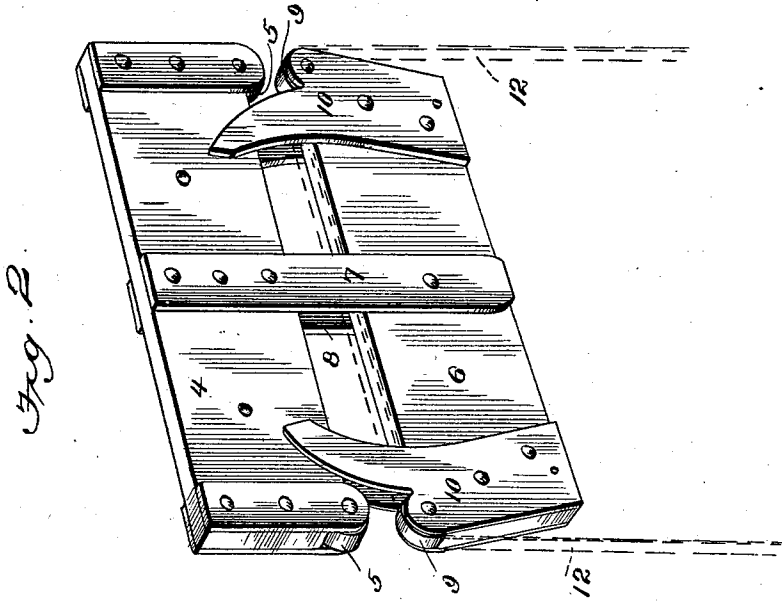


(No Model.)

A. W. CARLSON.
FIRE ESCAPE.

No. 513,757.

Patented Jan. 30, 1894.



Witnesses

John Minnie
Chas. S. Hyer

Fig. 1.

Inventor

Andrew W. Carlson

By John Wedderburn
his Attorney

UNITED STATES PATENT OFFICE.

ANDREW W. CARLSON, OF BUTTE, MONTANA.

FIRE-ESCAPE.

SPECIFICATION forming part of Letters Patent No. 513,757, dated January 30, 1894.

Application filed August 17, 1893. Serial No. 483,386. (No model.)

To all whom it may concern:

Be it known that I, ANDREW W. CARLSON, a citizen of the United States, and a resident of Butte city, in the county of Silver Bow and State of Montana, have invented certain new and useful Improvements in Fire-Escapes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to fire-escapes, and has for its object to provide simple and effective means for permitting occupants of a building to escape with safety from any height and be conducted without injury to the ground.

With this and other objects in view, the invention consists of the construction and arrangement of the several parts, which will be more fully hereinafter described and claimed.

In the drawings: Figure 1 is a perspective view of the fire-escape, shown applied and in position for use. Fig. 2 is a similar view of the fire-escape detached and shown on a larger scale, the conveying baskets being disconnected in this figure.

Similar numerals of reference are employed to indicate corresponding parts in both the figures.

Referring to the drawings, the numerals 1 and 2 designate two plates which are placed respectively inside and outside of the supporting wall, and banded together with bolts 3 which are threaded and fastened with nuts. The upper part of the operating mechanism embodies a plate 4, through which the said bolts 3 extend, and hold the mechanism any suitable distance from the wall as may be found desirable. At the lower corners of the plate 4, small rollers or flat faced pulleys 5 are secured, and suspended from the said plate 4 is a rocking-hanger 6, which is pivotally mounted and held by depending plates 7 and 8, rigidly attached to the opposite sides of the said plate 4. On the upper corners of the hanger 6 are pulleys 9, similar to the pulleys 5, and adjacent thereto, on opposite sides of the said hanger, and projecting above the same are guards 10, which are of such length as to extend across the space between the hanger 6 and the plate 4 at all times. To the lower corners of the hanger 6 and extending through the guards are guide-ropes or cords 11, which may extend downwardly to the

ground, and operate to properly adjust the hanger and guide the descent of the person escaping or regulate the degree of rapidity with which the descent is made. These ropes or cords 11 can also be controlled by the person descending if desired. Between the plate 4 and the hanger 6 and traveling through the guards is a main rope or cable 12 having baskets 13 on the opposite ends thereof, the said main rope being flat and engaging the pulleys at the corners of the plate 4 and hanger 6, and the speed of descent is regulated by adjusting the hanger so as to bring the rollers at one end with varying degrees of tension against the said main rope. In operation one basket descends with the person escaping, while the other ascends, and when not in operation the rope and the basket can be taken in the nearest room to where the machine is located.

The machine is made entirely of metal, and is to be located under the outer portion of the window-sill, and in such position that the basket can be entered from both sides.

It will be also understood that the mechanism herein set forth can be readily operated to load and unload vessels.

It is obviously apparent that many minor changes in the construction and arrangement of the several parts can be made and substituted for those shown and described without in the least departing from the nature or spirit of the invention.

Having thus described the invention, what is claimed as new is—

In a fire-escape, the combination of a plate, supported in connection with a wall and having pulleys at the lower corners thereof, a hanger pivotally mounted below and supported by the said plate, and having pulleys at the upper corners thereof, guards on opposite sides of the said hanger, a flat rope running between the plate, and hanger, and through the said guards and having baskets on the opposite ends thereof, and ropes or cords attached to the lower corners of the said hanger, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

ANDREW W. CARLSON.

Witnesses:

GOTRIK KRUSE,
OSCAR KRUSE.