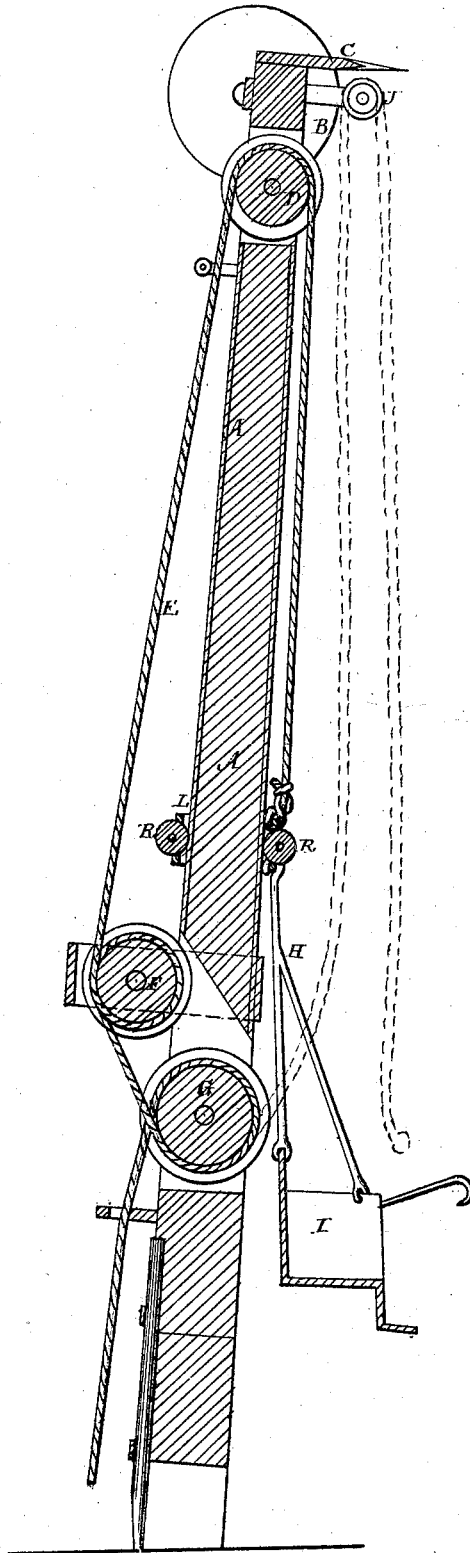


M. B. Hill,

Fire Escape.

No. 3245.

Patented Sept. 1. 1843.



UNITED STATES PATENT OFFICE.

MORTON B. HILL, OF FAIRFIELD, OHIO.

FIRE-LADDER.

Specification of Letters Patent No. 3,245, dated September 1, 1843.

To all whom it may concern:

Be it known that I, MORTON B. HILL, of Fairfield, in the county of Greene and State of Ohio, have invented a new and useful machine for preserving life and property in case of fire originating in the lower part of large buildings, called "Hill's life-preserver or ladder," which is described as follows, reference being had to the annexed drawings of the same, making part of this specification.

Figure 1 is a vertical section of the machine.

This machine consists of a pole A, from 35 to 40 feet long 6 inches diameter at butt, and 4 in diameter at top, having secured at its top, an axletree and two wheels B, for conducting it freely up the side of the building—and two bearded prongs C, for fastening it to the building in any desired position. A mortise is made in the pole, immediately below the axletree, in which a pulley D is placed, the axle of which, turns in boxes secured to the sides of the mortise. Another mortise is made in the pole near the lower end, or butt, in which is arranged a pulley G, around which is passed a rope or chain E. This rope extends from pulley G, to another pulley F, and after passing around it once, extends to a pulley D passing over the same, and down the opposite side of the pole, and is fastened to a circular band L, loosely surrounding the pole—

small friction rollers R being secured to the band L to prevent it in its up and down movement from touching the timber A.

A chair I of any desired form, is suspended to the circular band L by means of chains or rods H, in which the person, or persons, to be raised, or lowered, sit. A grapple-hook K, is attached to said chair, by which it can be held stationary at any desired point.

The rope E attached to the circular band, may, after being passed over the pulleys D, F and G be passed over a pulley J, secured to the top of the pole, and extend thence to the chair, by which arrangement the person in the chair may by his own exertions raise and lower himself.

What I claim as my invention and which I desire to secure by Letters Patent is—

The combination and arrangement of the several parts of the before described machine for preserving life and property in case of fire, and for other purposes—that is to say I claim the combination of the pole A, wheels B, pulleys F, G, D, rope or chain E, ring L, with the suspended chair I in the manner, and for the purpose herein set forth.

MORTON B. HILL.

Witnesses:

ANTHONY COST,
I. A. BURROWS.