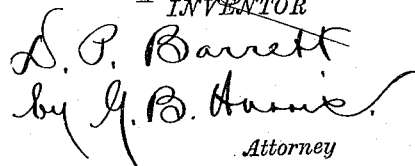


Patented June 1, 1886.



# UNITED STATES PATENT OFFICE.

DANIEL P. BARRETT, OF OAKLAND, CALIFORNIA.

## FIRE-ESCAPE.

SPECIFICATION forming part of Letters Patent No. 342,856, dated June 1, 1886.

Application filed May 17, 1884. Serial No. 131,833. (No model.)

*To all whom it may concern:*

Be it known that I, DANIEL P. BARRETT, a citizen of the United States, and a resident of Oakland, in the county of Alameda and State of California, have invented a new and useful Improvement in Fire-Escapes and Life-Saving Apparatus, of which the following is a specification.

My invention relates to fire escapes and life-saving apparatus. It will be fully understood by reference to the accompanying drawings and the letters marked thereon.

Figure 1 is a side elevation; Fig. 2, a front view; and Figs. 3, 4, 5, and 6 are views of detached parts.

The same letters refer to the same parts in each of the figures.

A represents the truck, bed, or frame.

B represents the lazy-tongs bed.

C represents the lazy-tongs guide-frame.

D represents the lazy-tongs.

E represents the ladder.

F represents the ladder attaching-arm.

G represents the lazy-tongs arm-guide.

H represents the arm-guide rolls.

I represents the bed-plate segmental rack.

J represents a segmental rack arranged upon the bed-plate I, and meshing with said rack is a pinion, K, connected with the bed of the lazy-tongs, whereby the pinion may be turned to adjust the lazy-tongs to the desired degree of inclination, the bed being held against movement by dogs X engaging a rack, I', and which are lifted when the pinion is to be operated to adjust the bed-plate.

L is an operating-screw journaled in the bottom of the truck, and fitted on one end of the shaft is a spur-wheel, N, adapted to be engaged by a pinion, M. On the operating-screw L is a nut, O, having journaled on a stub-shaft, a', thereof an anti-friction roll, which works in a slot of a lever-arm, R, connected with the lazy-tongs.

S represents the brace, which has the connecting-bar T for adjusting the same.

W represents a pointed or wedge-shaped cap or roof, which is attached to the top round of the lazy-tongs in the center and extending

over, so as to pass up between the telegraph-wires, and pushing them aside will protect the men upon the ladder who are to stand within or under the same.

Many devices may be attached to the lazy-tongs, such as sending out pontons through the surf to the relief of shipwrecked persons, or any device of grappling-hooks.

The following is the operation of the same: In case of a building being on fire, the truck A is placed in a position to throw the lazy-tongs up against or upon the building. The dogs X and X are raised out of the rack I, and the pinion K is revolved, throwing the lazy-tongs bed over, so that the lazy-tongs guide C points to the position designed to be reached. The screw L is revolved by means of the pinion M and spur-wheel N, and the nut O is drawn forward, and the anti-friction roll P, operating in the lever-arm R, draws the same back, throwing up the lazy-tongs D. The ladder E, being attached to the arm F, is drawn up, being unwound from the ladder-drum Y. (Shown in Fig. 1.)

For the purpose of affording a broader base, I have provided the lever-brace S and T, which are thrown over to the ground, and the brace is attached by hooking to the truck in any of the notches a, b, or c.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In fire-escapes and life-saving apparatus, the lazy-tongs D, the guide-frame C, adjustable bed-plate B, segmental slot G, and anti-friction rolls H, the slotted lever-arm R, anti-friction roll P, the nut O, the screw L, and the gear M and N, in combination with the truck-bed A, constructed, arranged, and operated substantially as and for the purposes set forth.

2. In fire-escapes and life-saving apparatus, the brace S, with adjustable connecting-bar T, constructed and operated as and for the purposes set forth.

DANIEL P. BARRETT.

Witnesses:

JOHN H. REDSTONE,

L. E. REDSTONE.