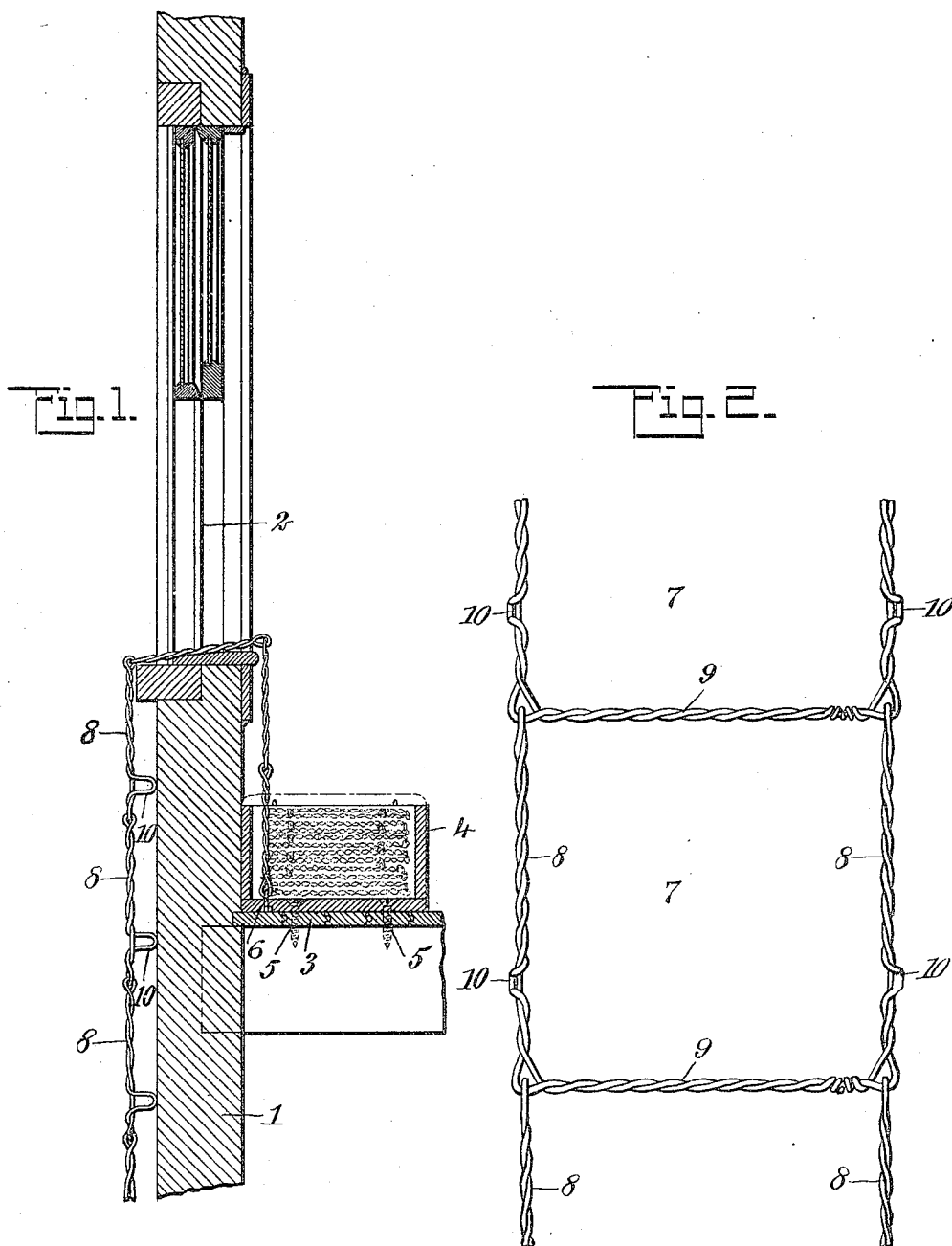


W. A. FARMER.
FIRE ESCAPE LADDER.
APPLICATION FILED APR. 7, 1909.

949,531.

Patented Feb. 15, 1910.



WITNESSES
L. Almquist.
H. Whiting

INVENTOR
Warren A. Farmer
BY *Mumolo*
ATTORNEYS

UNITED STATES PATENT OFFICE.

WARREN ANDREW FARMER, OF ARCADE, NEW YORK, ASSIGNOR OF ONE-HALF TO
BERT D. SHEDD, OF ARCADE, NEW YORK.

FIRE-ESCAPE LADDER.

949,531.

Specification of Letters Patent.

Patented Feb. 15, 1910.

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To all whom it may concern:

Be it known that I, WARREN ANDREW FARMER, a citizen of the United States, and a resident of Arcade, in the county of Wyoming and State of New York, have invented a new and Improved Fire-Escape Ladder, of which the following is a full, clear, and exact description.

This invention relates to a collapsible fire-escape ladder which may be conveniently stored adjacent to a window, and which is adapted to be readily adjusted out of the window in case of a fire.

The object of the invention is to construct a ladder which will be strong, of light weight, easily manipulated, and which will automatically space itself from the side of the building, so as to leave room on the rungs for the hands and feet of the user.

The invention consists broadly in a ladder made up in sections pivoted together, the end of the ladder being secured to the floor adjacent to the window. Each section is formed from a single length of wire bent back and twisted on itself into a substantially U-shaped form. Loops are formed in the corners and at the ends of each section, for joining the sections together. Loops are also bent in the sides of each section, forming legs, which are adapted to keep the ladder away from the side of the building.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in both views, and in which—

Figure 1 is a section taken through the wall of a building, showing in full lines the ladder extending out through the window, and in dotted lines the ladder stored in a suitable receptacle adjacent to the window; and Fig. 2 is an enlarged front view of a section of the ladder.

Referring more particularly to the separate parts of the device, 1 indicates the side wall of a building, which has a window opening 2 therein.

Suitably supported on a floor 3, adjacent

to the window 2 is a box or similar receptacle 4, which is adapted to contain the ladder when folded up. This receptacle 4 is preferably fastened to the floor by any suitable means, such as screws 5, and has secured to the bottom thereof a pair of staple bolts 6, to which the end section of the ladder is adapted to be fastened.

The ladder proper is made up in sections 7 of substantially U-shape, pivoted together. The sections 7 are each made of a single length of wire bent together and twisted on itself so as to form loops at the ends and angles of the sections. This divides the U-shaped section into side bars 8 and cross bars or rungs 9. Each pair of side bars have at their top ends loops formed by the bend and twist in the wire, which engage with loops formed at the other extremities of the side bars in the next preceding section. The side bars are formed by twisting the wire in opposite directions, and at the junctions of the twists intermediate the ends of the side bars, bends 10 are formed, which face in the same direction and are adapted to act as fending loops or legs, to keep the ladder away from the side of the building, in order to permit a sufficient hold of the rungs of the ladder.

This construction provides a simple and efficient ladder, which may be readily folded up and stored in a small space, and which has strong loops connecting one section with the other, which cannot readily be unbent to allow the sections to fall apart.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:—

1. A ladder, comprising sections pivoted together, each of said sections having side bars and a cross bar, said side bars being formed of a length of wire bent back on itself and twisted in opposite directions, and having a fending loop formed at the junctions of the opposite twists.

2. A ladder, comprising a plurality of sections hinged together, each of said sections being formed of a single wire bent and

twisted on itself to form double stranded integral side and cross bars, said side bars being formed at their ends with integral pivoted loops and also having intermediate
5 their ends fending loops formed of a single strand.

In testimony whereof I have signed my

name to this specification in the presence of two subscribing witnesses.

WARREN ANDREW FARMER.

Witnesses:

J. H. SMITH,

D. C. BENTLEY.