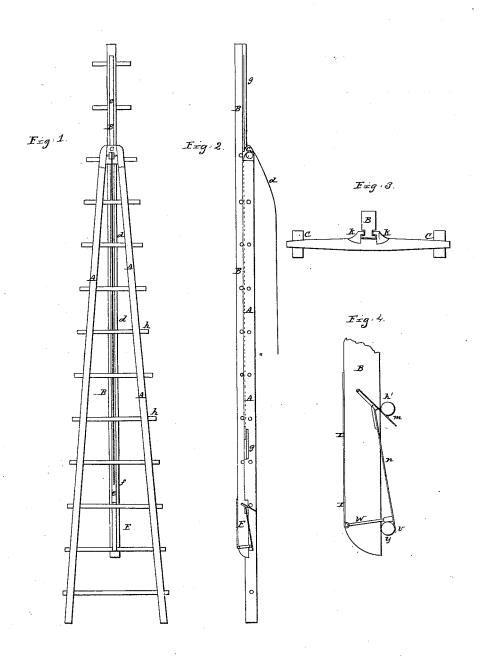
W. Morestead.

Extension Ladder

Nº46,812.

Patented Mar. 14, 1865.



Witnesses. Chas A. Bayllett-W. N. Walfe Inventor: (Waven Morehead)

United States Patent Office.

WARREN MOREHEAD, OF PARKERSBURG, WEST VIRGINIA.

IMPROVED EXTENSION-LADDER.

Specification forming part of Letters Patent No. 46,812, dated March 14, 1865.

To all whom it may concern:

Be it known that I, WARREN MOREHEAD, of Parkersburg, in the county of Wood and State of West Virginia, have invented a new and useful Extension-Ladder; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which-

Figure 1 is a vertical view showing the triangular ladder A, sliding ladder B, pulley c, rope d, groove e for receiving the rope d, the point f of attachment of the rope d to the sliding ladder B, and the latch E, for holding

the sliding ladder B in its position.

Fig. 2 is a side view, partly sectioned, showing the groove g for receiving the guides, which prevent back and lateral motion, pul-

ley c, and the latch E.

Fig. 3 is a transverse section showing the rounds h, the standard C of the triangular ladder A, the sliding ladder B, the guides kk, for preventing back and lateral motion, and the groove g in the sliding ladder B, for receiving the guides k k.

Fig. 4 is an enlarged section showing the construction and operation of the latch E, to operate which the sliding ladder B must be drawn up by the rope d acting over the pul-

ley c and attached to the sliding ladder B at funtil the tongue m of the latch presses under the round h', Fig. 4 next above the one upon which the catch v of the latch is expected to fasten. This pressure of the tongue m throws forward the rod n, (of which the catch v is a prolongation,) while the vibrating arm w forces the catch v above the round y. In raising the sliding ladder B the catch v must pass under the rounds h of the triangular ladder A. This brings it level with the face of the sliding ladder B. To force it out again, the spring x is placed at the back of the sliding ladder, acting on the catch v through the medium of the vibrating arm w. To lower the sliding ladder B, it must be raised until the tongue m is above the round h', Fig. 4, which brings the catch v on a level with the face of the sliding ladder, thus offering no resistance to its descent.

What I claim as my invention, and desire to secure by Letters Patent, is-

The combination of the triangular ladder A, the sliding ladder B, the guides k k, and the latch E, constructed, arranged, and operting in the manner specified.

WARREN MOREHEAD.

Witnesses:

JOHN WHITE, F. L. KIRKPATRICK.