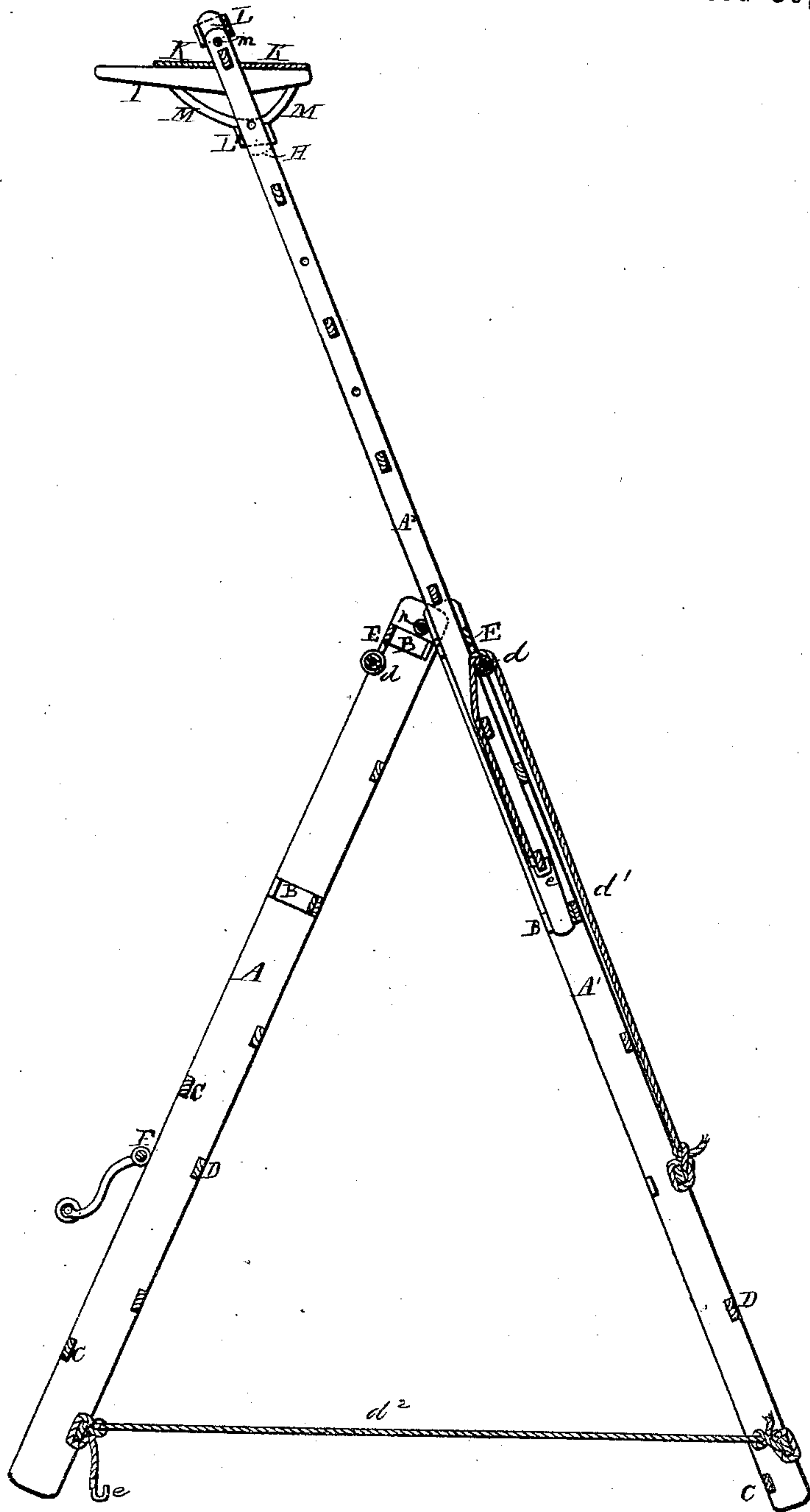


C. WOLF.

Improvement in Ladder-Platforms.

No. 131,042.

Patented Sep. 3, 1872.



Witnesses.

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UNITED STATES PATENT OFFICE.

CLEMENCE WOLF, OF WILMORE, PENNSYLVANIA.

IMPROVEMENT IN LADDER-PLATFORMS.

Specification forming part of Letters Patent No. 131,042, dated September 3, 1872.

To all whom it may concern:

Be it known that I, CLEMENCE WOLF, of Wilmore, in the county of Cambria and State of Pennsylvania, have invented a new and valuable Improvement in 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 drawing making a part of this specification, and to the letters and figures of reference marked thereon.

The figure of the drawing is a representation of a central vertical longitudinal section of my ladder.

This invention has relation to ladders for the use of painters, tinnerns, &c.; and the novelty consists in a sliding platform working in connection with an extensible ladder, and so arranged as to be rendered adjustable to suit the nature of the work, as hereinafter described.

Referring to the accompanying drawing, A A¹ A² represent, respectively, the three adjustable sections of an extension ladder adapted to slide, one between the sides of the other, and guided by means of the metallic flanged guides B, the cross-braces C, and the foot-rounds D. E designates transverse bars arranged near the upper ends of the sections A A¹, and provided with the pulley-rollers *d*, over each of which passes a cord, *d*¹ *d*², having one end secured to a lower round of the next higher section, and the other end brought down and tied to one of the rounds or cross-braces of its own section or wound around a crank-shaft, F, journaled to the sides of the section A, as shown in the drawing. The movable sections A¹ A² are elevated by drawing on the cords *d*¹ *d*² or by winding the latter up on the crank-shaft. At the top of the section A² is shown an adjustable bracket or platform, having the side bars H, horizontal arms I, and boards K. The last-mentioned rest on the arms I and are separated by the side bars H, allowing space between them for the section A² to slide up and down. L L' designate flanged guides secured to the bars H

and adapted to embrace the edges of the side bars of the section A². M indicates curved braces extending from the lower guides L' laterally and upward to the arms I, to which they are secured and serve as supports. The guides L' and braces M are in one piece, as shown, and are thus secured to the bars H by the same fastenings. At various points along the sides of the section A² holes *a* are bored to receive a rod, *m*, which is inserted through the side bars H, and is designed for the purpose of sustaining the foot platform at any desirable place along the section A². When all the sections of the ladder are adjusted for extension, or when they are extended, the ladder must be supported by a wall or some equivalent body; but it may be desirable or necessary sometimes to elevate the ladder where there is no wall. In such cases the section A may be disconnected from the other sections and then hinged to the top of the section A¹ by means of a rod, *h*, passing through holes in the section A and through staples in the section A¹. The cord *d*² is then used to regulate the divergence of the section A from the section A¹ by tying its end to the rounds or cross-bars, as shown in the drawing. In the position described the section A will serve to brace the other sections. *e* designates a hook on the end of the ropes *d*¹ *d*², so that when the ropes are passed over the rollers *d* they may be readily attached to one of the rounds or cross-bars of the section to be raised.

I claim as my invention—

In a painter's ladder the sliding platform, composed of the board K, cheeks H, braces M, guides L L', and horizontal arms I, in combination with rod *m*, and the sliding section A², having its sides perforated, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

CLEMENCE WOLF.

Witnesses:

JOHN F. BARNES,
JOHN G. KELLER.