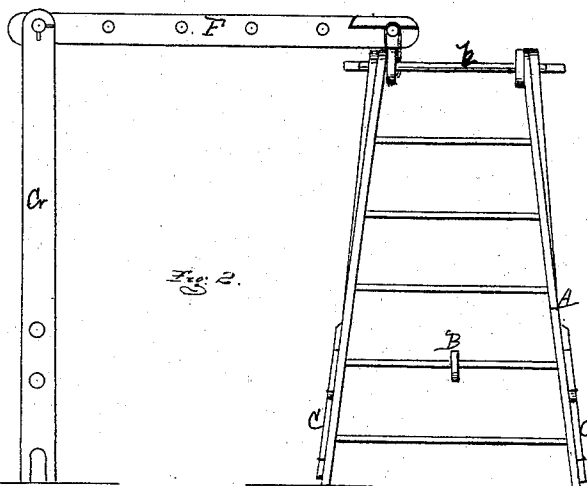
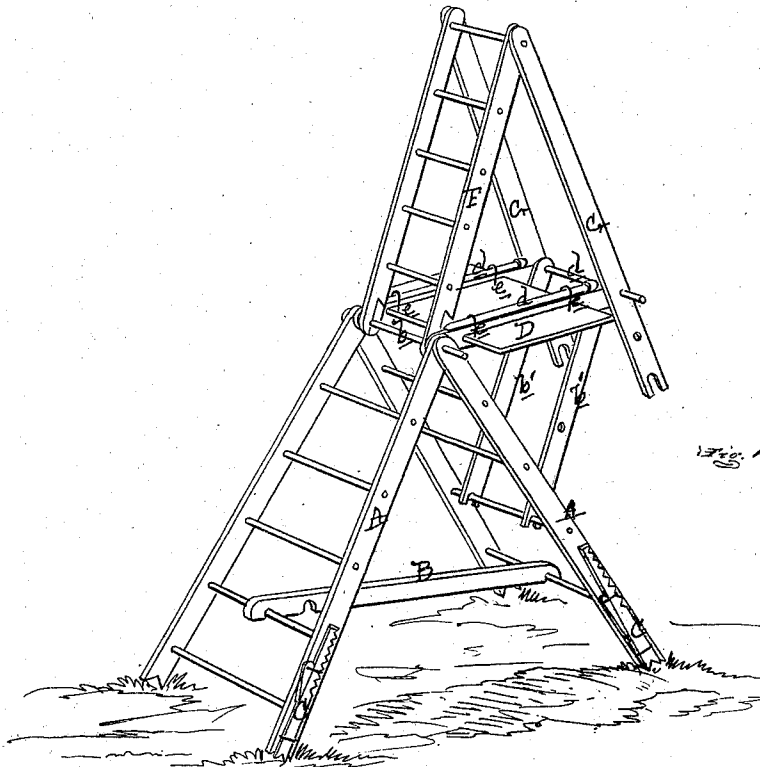


W. O'CONNOR.
Extension-Ladders.

No. 137,948.

Patented April 15, 1873.



ATTEST:
Chas. H. Hunt
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INVENTOR:
Wm. O'Connor
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Thos. S. Sprague

UNITED STATES PATENT OFFICE.

WILLIAM O'CONNOR, OF BERVILLE, MICHIGAN.

IMPROVEMENT IN EXTENSION-LADDERS.

Specification forming part of Letters Patent No. **137,948**, dated April 15, 1873; application filed September 19, 1872.

To all whom it may concern:

Be it known that I, WILLIAM O'CONNOR, of Berville, in the county of St. Clair and State of Michigan, have invented a new and useful Improvement in Extension Adjustable Ladder and Platform; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon and being a part of this specification, in which—

Figure 1 is a perspective view of my improved ladder, showing platform and extension above. Fig. 2 is an elevation, showing ladder, platform, and extension horizontally.

Like letters refer to like parts in each figure.

The nature of this invention relates to the construction of a ladder, so arranged that the extension of the same may be above the platform, or horizontally in any direction, so that the position of the ladder need not be changed. The invention consists in the combination and arrangement of the various parts, as more fully hereinafter set forth and described.

In the accompanying drawing, A represents two ladders of equal length, connected at top by engagement with the upper round *b*. A brace, B, prevents these ladders from being displaced when in use. At their bottom ends the side pieces of these ladders are provided with adjustable feet C, held in any desired position by means of the teeth, loops, and cams or wedges, as shown, for the purpose of adapting the ladder to inequalities of the surface upon which it stands. D is a platform, pivoted to the upper round *b* of the ladders, and whose outer end rests upon braces *b'*, which,

in turn, rest upon one of the lower rounds of one of the ladders, the lower ends of said braces being properly notched to hold them in place. *ee* are loops, to receive a loose round or bolt, *d*, for the purposes hereinafter described. F is another section of ladder, the lower end of which, by any suitable means, is secured or pivoted, as shown in Fig. 1, to the upper round *a*, and secured in its upright position by the braces G, the lower ends thereof engaging with the platform, as shown, or with one of the rounds of the ladders A; or, as shown in Fig. 2, the lower ends of the section F may engage with the round or bolt *d* of the platform, and extend outward on the same plane of the platform, the braces G resting upon the ground to sustain it. It is so arranged that this section may be extended in any direction—a great desideratum in fruit-picking.

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

1. In combination with two ladders, A, the extension F, arranged as described, in order that it may be extended in any desired direction, substantially in the manner and for the purposes set forth.

2. The arrangement of the ladders A F, braces B G, adjustable feet C, and platform D, (the latter being provided with loops E and bolt *d*), substantially as described, and for the purposes set forth.

WILLIAM O'CONNOR.

Witnesses:

THOS. S. SPRAGUE,
H. S. SPRAGUE,
CHARLES J. HUNT.