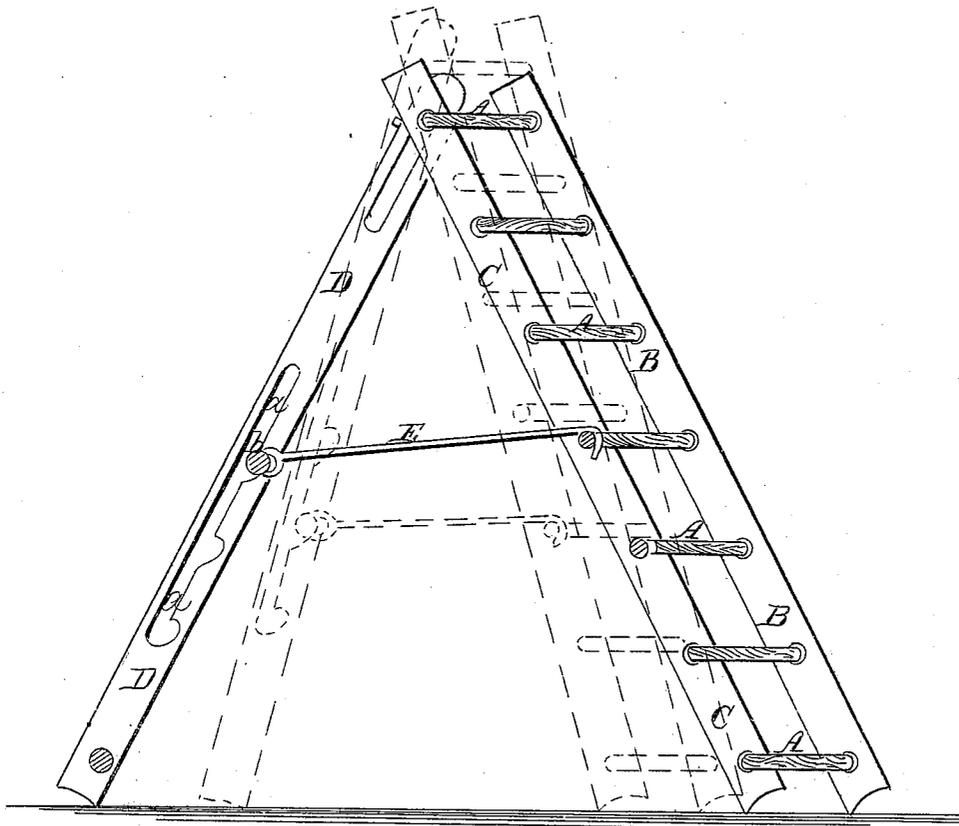


Crosdale & Runk.

Step Ladder.

No. 92,708.

Patented July 20, 1869.



Witnesses:

Wm Deam Overell

Geo. H. Mabee

Inventor:

*R. R. Crosdale
and P. Runk*

PER

Wm M. S.
Attorneys.

United States Patent Office.

ROBERT R. CROASDALE AND PETER RINK, OF REAVILLE, NEW JERSEY.

Letters Patent No. 92,708, dated July 20, 1869.

IMPROVED ADJUSTABLE STEP-LADDER.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, ROBERT R. CROASDALE and PETER RINK, of Reaville, in the county of Hunterdon, and State of New Jersey, have invented a new and improved Adjustable Step-Ladder; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

The drawing represents a sectional side elevation of our improved adjustable step-ladder.

This invention has for its object to construct a step-ladder, on which the steps can be adjusted into a horizontal position, whatever may be the degree of elevation of the ladder.

The invention consists in pivoting each end of each step in two side-bars, so that the latter will be adjustable, to set the steps at any angle to the bars, and in providing a brace-frame, which has an up-and-down adjustable connecting-rod.

A A, in the drawing, are the steps of our improved ladder.

Each step has two tenons, *a a*, projecting from each end, and is, by means of the same, pivoted to two separate pairs of side-bars, B C.

The brace-frame D is, at its upper slotted end, pivoted to the inner bars, C.

The side-bars of the brace-frame have notched slots;

a, in which a cross-bar, *b*, can be adjusted up and down.

A rod, E, for connecting the middle portion of the brace-frame with one of the steps A, is secured to the cross-bar *b*.

When the height of the ladder, and the consequent inclination of the side-bars B C, are determined, the brace-frame is connected with one step by the rod E.

The length of the bars B C is such, that when both are made to touch the ground, the steps will be level, or nearly so, as indicated by red and black lines in the drawing.

The higher the ladder is made—that is to say, the more the distance between the lower ends of C and D is reduced—the more is the cross-bar *b* set down, as shown.

Having thus described our invention,

What we claim as new, and desire to secure by Letters Patent, is—

The adjustable step-ladder, which consists of the steps A A, of which each has two pairs of tenons, of the double side-bars B C, slotted brace-frame D, up-and-down adjustable cross-bar *b*, and connecting-rod E, all combined and arranged substantially as herein shown and described.

ROBERT R. CROASDALE.

Witnesses: PETER RINK.

R. W. HUNT,

JOHN J. SUTPHIN.