(No Model.)

G. M. EDGAR.

STEP LADDER.

No. 368,199. Patented Aug. 16, 1887.

Fig. 1

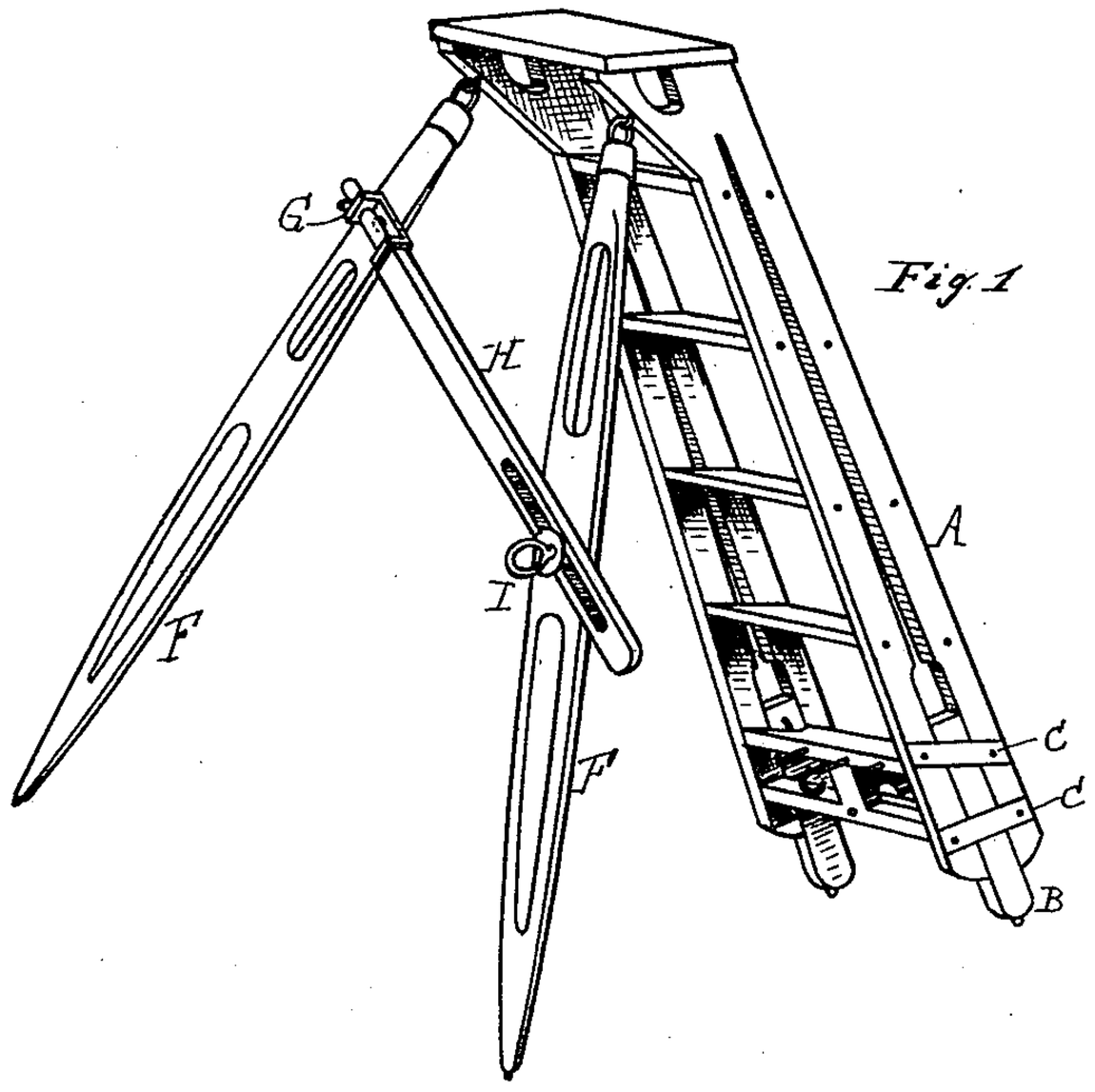
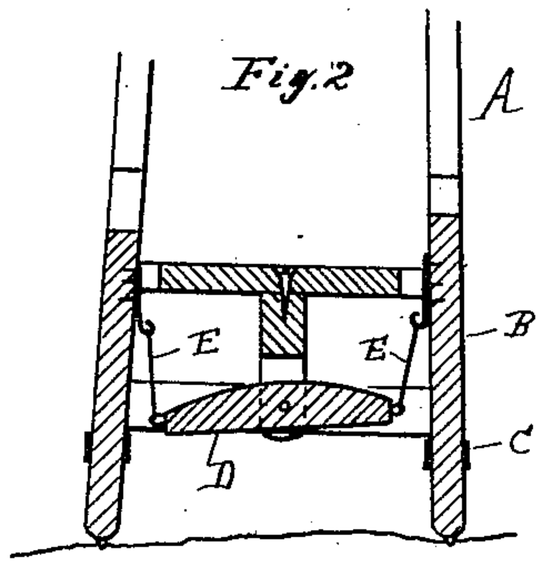


Fig. 2



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by his Atty

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UNITED STATES PATENT OFFICE.

GEORGE M. EDGAR, OF CLARKSTON, MICHIGAN.

STEP-LADDER.

SPECIFICATION forming part of Letters Patent No. 368,199, dated August 16, 1887.

Application filed April 28, 1887. Serial No. 236,438. (No model.)

To all whom it may concern:

Be it known that I, GEORGE M. EDGAR, of Clarkston, in the county of Oakland and State of Michigan, have invented new and useful Improvements in Step-Ladders; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to certain new and useful improvements in step-ladders.

The object of the invention is to construct a step-ladder that can readily be adjusted upon uneven surfaces in such a manner as to keep the steps of the ladder upon a horizontal plane.

To this end the invention consists in the peculiar construction and combination of the various parts, all as more fully hereinafter set forth.

Figure 1 is a perspective of my improved step-ladder. Fig. 2 is a vertical section through the foot of the ladder, showing arrangement of the adjustable sliding feet.

In the accompanying drawings, which form a part of this specification, A represents a step-ladder of any suitable construction. In the lower ends of the side bars or legs of this ladder I place extension-feet B, arranged to have a sliding movement therein between proper guides, C, secured to the ladder.

D is a lever properly fulcrumed below the lower step of the ladder and between the side bars thereof. The ends of this lever are connected by rods or links E to or near the upper ends of the sliding extension-feet B.

F are the rear legs, the upper ends of which are pivotally connected to the head of the ladder A by any suitable universal joint. To one of the legs F is pivotally secured a casting, G, in which are formed suitable bearings to receive the rounded end of the brace-bar H. The opposite end of this brace-bar is slotted in its longitudinal direction, and through which a thumb-screw, I, passes and screws into the opposite rear leg.

This ladder is more especially designed for "outdoor" use—as, for instance, in picking apples when the ground is uneven or upon a side-hill—and it will readily be seen from the construction shown that the extension-feet will automatically adjust themselves to the surface of the ground, one foot being projected as the other is retracted. The rear legs can readily be adjusted so as to bring the steps of the ladder upon a horizontal plane.

What I claim as my invention is—

1. A step-ladder provided with automatically vertically adjustable extension-feet working loosely in guides on said ladder, substantially as described.

2. The combination, with the ladder, of the feet B, working in guides on said ladder, lever D, and connections between said lever and ladder, substantially as and for the purpose specified.

3. The combination, with the ladder and the legs F, swiveled thereto, of the casting G, pivotally secured to one of said legs, and the brace-bar H, pivoted at one end in said casting and the other end adjustably connected to the other leg, substantially as and for the purpose specified.

GEORGE M. EDGAR.

Witnesses:
H. S. SPRAGUE,
CHARLES J. HUNT.