

L. A. BOYD.
 COMBINED STEPLADDER AND EXTENSION LADDER.
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1,374,548.

Patented Apr. 12, 1921.

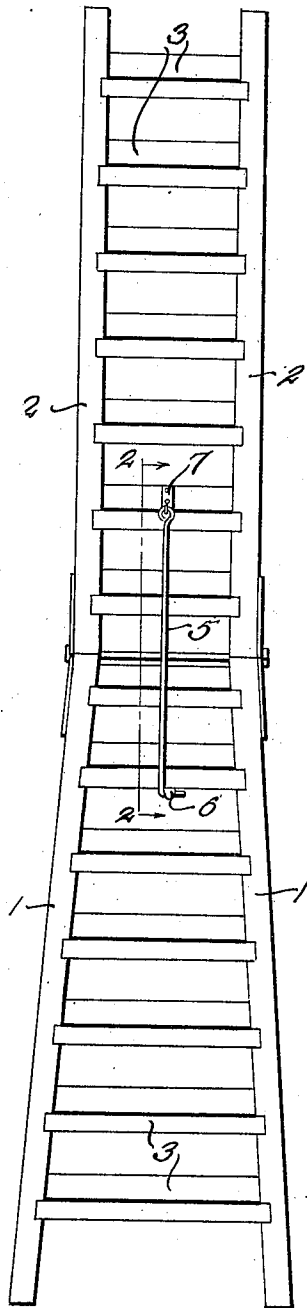


Fig 1

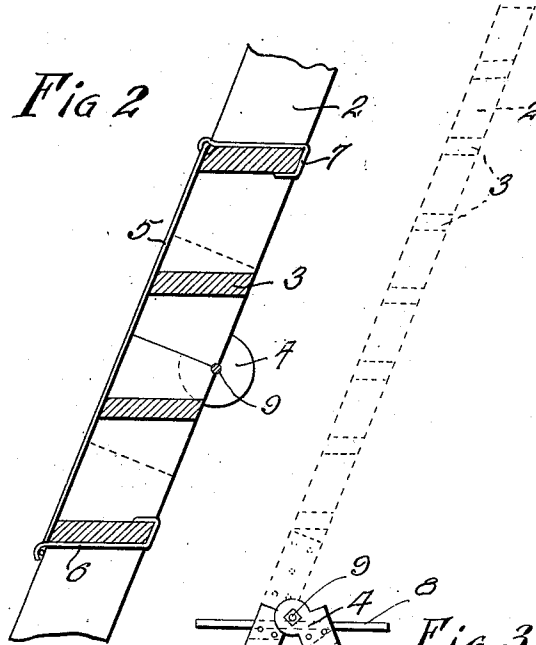


Fig 2

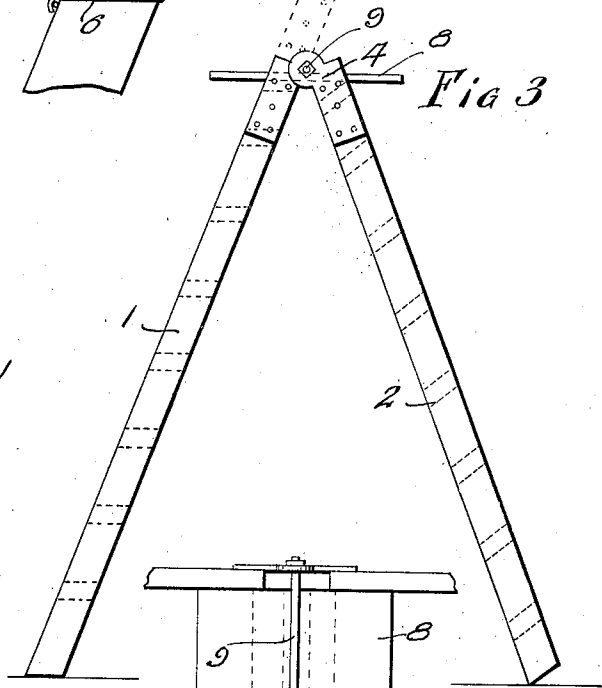


Fig 3

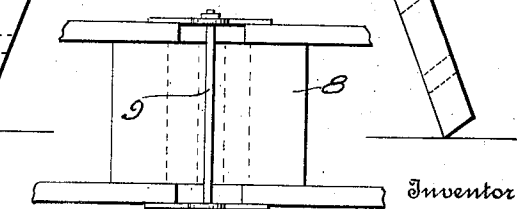


Fig. 4

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COMBINED STEPLADDER AND EXTENSION-LADDER.

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To all whom it may concern:

Be it known that I, LITTLETON ADAMS BOYD, a citizen of the United States, residing at Illiopolis, in the county of Sangamon and State of Illinois, have invented a new and useful Combined Stepladder and Extension-Ladder, of which the following is a specification.

The object of my invention is to provide a novel ladder adapted for use either as a stepladder or as a straight or extension ladder. I attain the objects of my invention by the device illustrated in the accompanying drawings, in which—

Figure 1 is a rear elevation of the ladder extended;

Fig. 2 is a section on the line 2—2 of Fig. 1;

Fig. 3 is a side elevation, the ladder being shown in straight or extended position in dotted lines, and

Fig. 4 is a top plan.

Like numerals designate like parts in each of the several views.

Referring to the accompanying drawings I provide suitable ladder sections 1 and 2 of substantially similar length, having steps 3 extending in substantially parallel arrangement when the sections 1 and 2 are alined as shown in Fig. 1. I further provide a suitable hinge element 4 attached to adjacent ends of sections 1 and 2, whereby the ladder may be shifted from the position shown in Fig. 1 to that shown in Fig. 3. I provide suitable means for securing the sections in straight or extended position, consisting of the clamp 7 engaging a step 3 of one of the sections, a hook 5 and a tongue 6, secured to

one of the steps of the other section and adapted to be engaged by the hook 5.

I provide novel means for securing the ladder in position for use as a step ladder as shown in Fig. 4, consisting of the board 8 which is inserted under the hinge rod 9 on the topmost steps. In operation, the device is held in position for use as a step ladder by board 8 which engages under rod 9 and bears against the topmost steps. It is secured in extended position by the hook 5 as shown.

I may provide either steps or rounds in the section forming the upper part of the ladder, and the term "steps" is to be construed as including rounds in this specification.

What I claim is:

In a combined step ladder and extension ladder, the combination of ladder sections, each of the sections having steps or rounds disposed in substantially parallel relation when the sections are extended, the topmost steps or rounds being disposed in proximity to the hinge means but spaced sufficiently therefrom to permit the insertion of a board between the steps and hinge means, hinge means operatively connecting one end of each of the ladder sections, a board adapted to be inserted between said topmost steps or rounds and the hinge means to thereby lock the ladder in position for use as a step ladder, and means carried by one of the sections adapted to be rigidly connected to the other section to lock the sections in longitudinal alinement for use as an ordinary or straight ladder.

LITTLETON A. BOYD.