

(No Model.)

2 Sheets—Sheet 1.

G. W. STAMBAUGH.
EXTENSION STEP LADDER.

No. 274,526.

Patented Mar. 27, 1883.

Fig. 1.

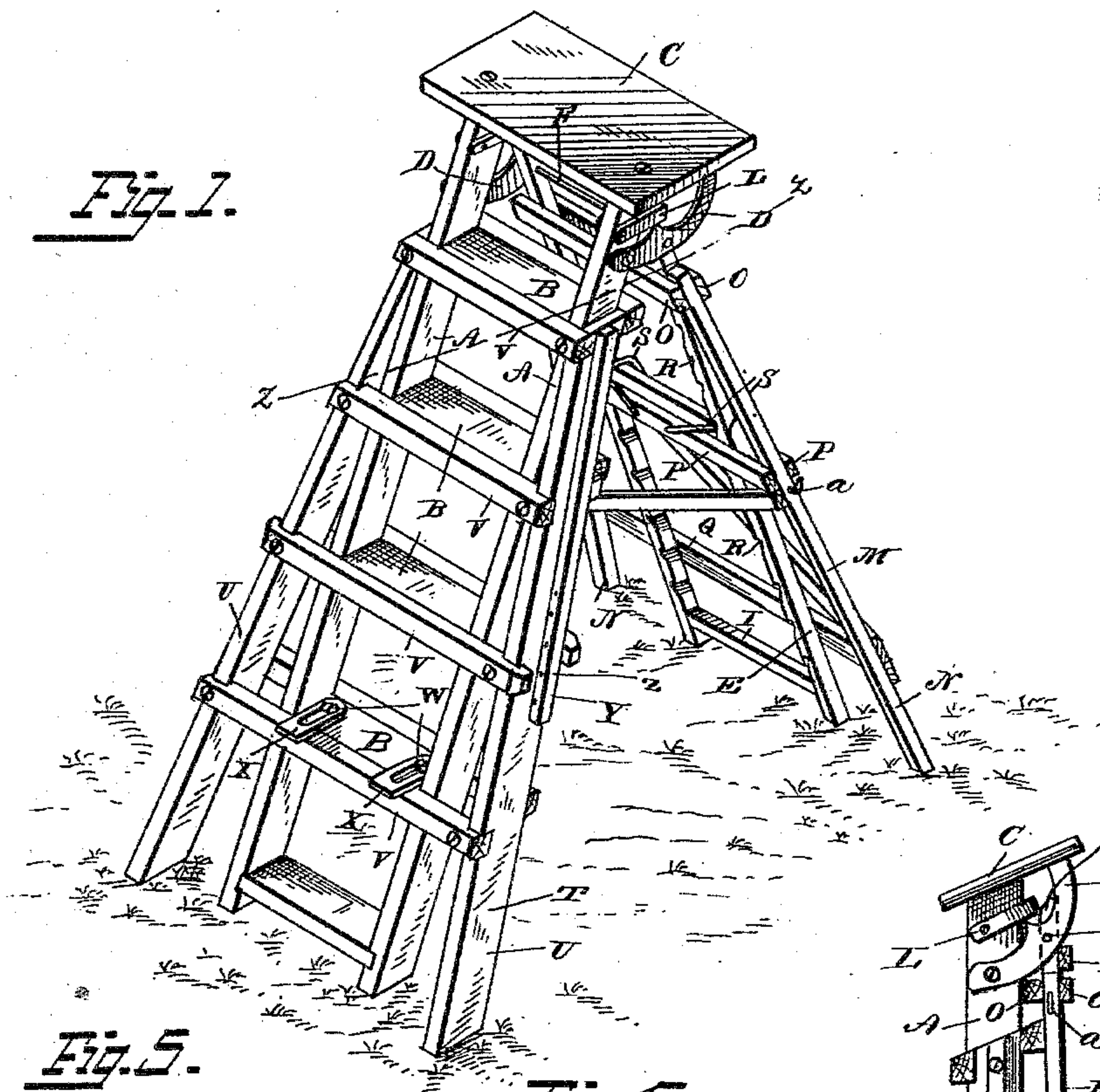


Fig. 5.

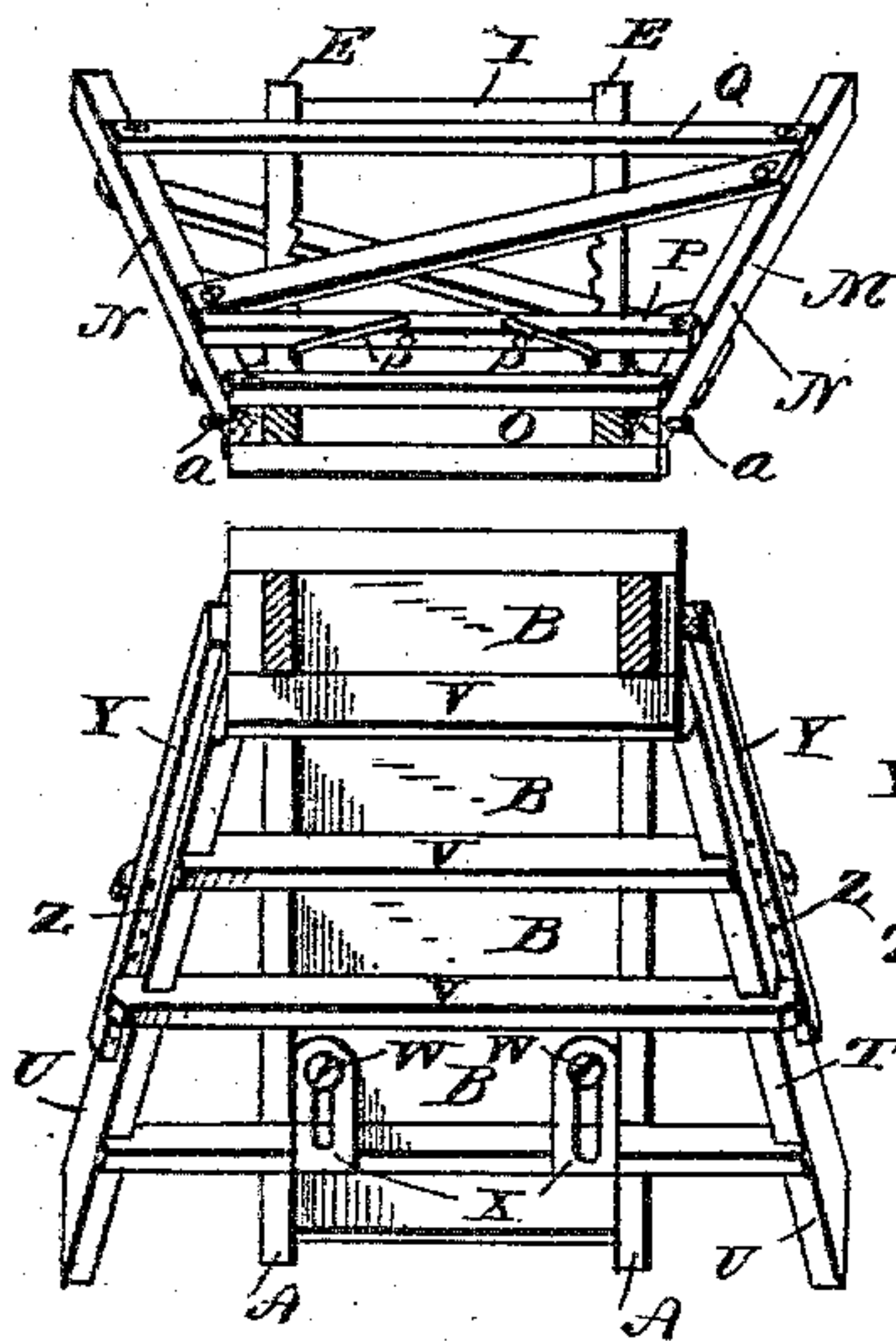


Fig. 4.

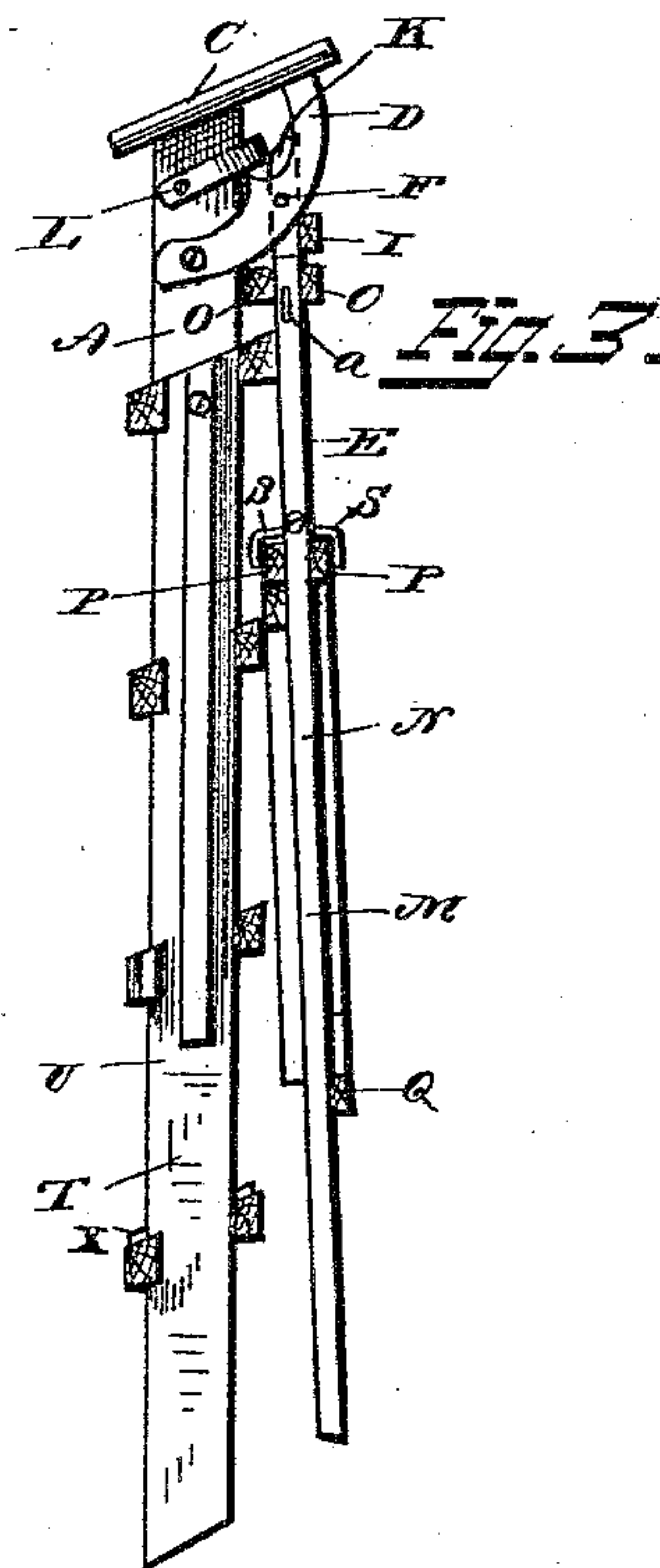
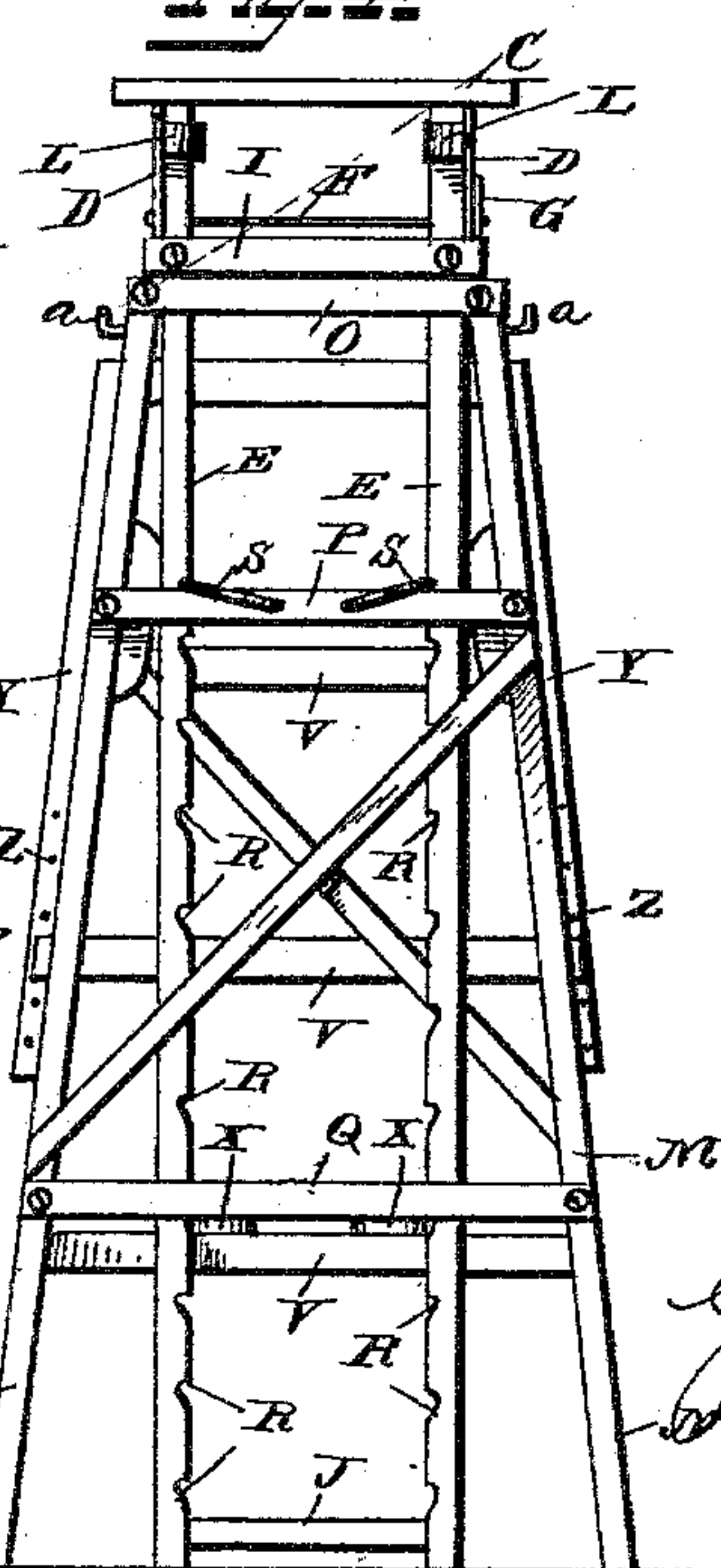


Fig. 3.

WITNESSES

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(No Model.)

2 Sheets—Sheet 2.

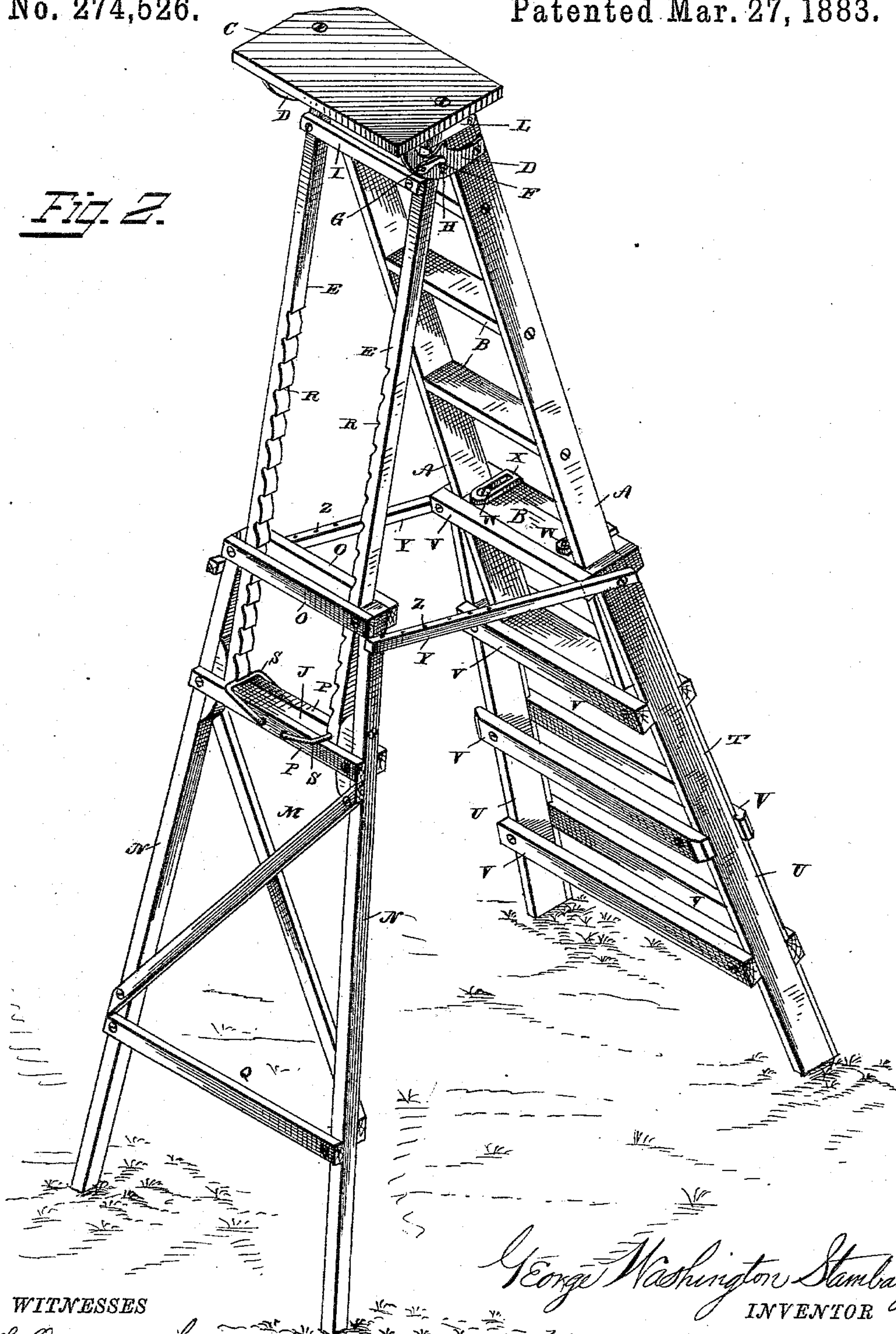
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Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

GEORGE W. STAMBAUGH, OF TROY, ILLINOIS.

EXTENSION STEP-LADDER.

SPECIFICATION forming part of Letters Patent No. 274,526, dated March 27, 1883.

Application filed December 22, 1882. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. STAMBAUGH, a citizen of the United States, residing at Troy, in the county of Madison and State of Illinois, have invented a new and useful Extension Step-Ladder, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to extension step-ladders, and has for its object to provide a simple, durable, inexpensive, and efficient ladder, that can be quickly and conveniently extended, and that can also be readily disconnected from its supports so that it can be used as an ordinary ladder when desirable.

In the drawings, Figure 1 is a perspective view of the ladder contracted and in position for use. Fig. 2 is a like view, illustrating the ladder extended. Fig. 3 is a side view, showing the ladder folded in position for transportation. Fig. 4 is a rear elevation of the ladder. Fig. 5 is a horizontal sectional view on the line *z z*, Fig. 1.

Referring to the drawings, *A A* designate the side pieces of the ladder, which are connected in the usual manner by cross-pieces *B*, forming steps, and have the platform *C* at their tops. From the rear of this top platform extends at each side a plate or bracket, *D*, to which is pivoted one of the pair of supports *E*, by means of a transverse pivot-bolt, *F*, which is preferably secured in position by a hook-shaped plate, *G*, that is pivoted to the bracket *D* and engages a groove, *H*, in the end of the bolt *F*. By elevating this latch-plate *G* the bolt *F* can be removed, when the supports *E* may be separated from the ladder proper, so as to admit of the latter being used like an ordinary ladder independent of the supports. These supports *E E* are connected and braced at the top and bottom by cross-pieces *I J*, respectively, and have their top ends, *K*, beveled to facilitate their engagement with a bail, *L*, pivoted at the top of the side pieces *A A*. When the ladder is out of use these bails *L L* will be disengaged from the ends of the supports and the latter will be folded up against the ladder proper. Now, when it is desired to use the ladder the supports have only to be drawn out from the ladder, while the said bails automatically fall over the ends of the supports and serve to retain them in position.

M designates an auxiliary support, that is adjustable on the supports *E E*, and is provided with side pieces *N N*, which are connected by cross-braces *O O* at the top, like braces *P P*, disposed some distance from and below the braces *O O*, and braces *Q Q* at the bottom. The supports *E E* are received between these various cross-braces and have their inner edges provided with notches *R*, that are transversely cut but disposed in a longitudinal series down each of the supports. Any of these notches are adapted to be engaged by one of a pair of bails, *S S*, pivoted on the cross-braces *P P*, and arranged to swing over and engage the desired notch to retain the pivoted supports and the auxiliary supports in the relative position to which they may have been adjusted.

T designates an auxiliary step-extension, which comprises side pieces *U U*, united by parallel cross-strips *V*, which form steps. The main-step portion of this improved ladder is accommodated between these cross-strips *V*, and the two step portions slide together to extend or contract the ladder. One of the steps *B*, near the bottom, is provided at each side with a lug or pin, *W*, on which slides a slotted plate, *X*, that can be drawn forward, as shown, to project over any of the cross-strips of the auxiliary-ladder portion, and thereby retain the ladder-step portions in the relative position to which they have been adjusted.

Y Y designate two rods, one of which is pivoted at the side of each of the side pieces *A A* that are provided with a series of perforations, any of which is adapted to engage a pin, *a*, projecting from the side of each of the side pieces *N N* to brace the step portions and supports when the ladder is extended.

The operation and advantages of my invention are obvious. The construction is simple and not liable to displacement, while the adjustment can be effected with superior facility and convenience. When desired, the auxiliary steps and supports can be jointly or independently removed entirely from the ladder, and either the step or supporting section can be independently adjusted to adapt the ladder to uneven surfaces.

I claim as my invention—

1. In a step-ladder, the combination of a step portion, supports pivotally connected

therewith, and bails pivoted to the step portion and adapted to engage the top ends of the supports above their pivot connection with the step portion, as set forth.

5 2. In a step-ladder, the combination of a step portion, brackets extending from the same at the top, supports pivoted to said brackets by a cross-pin, and bails pivoted to the step portion and adapted to engage the tops of the
10 supports, as set forth.

15 3. In an extension step-ladder, the combination of the main-step portion of the ladder having one of its steps at the bottom provided on its top surface with lugs or pins, slotted plates working on these pins, so as to project out over the step, and an auxiliary-step portion comprising side pieces connected by parallel cross-strips between which the main-step portion slides, as set forth.

4. In an extension step-ladder, the combination of main supports having a series of notches on their inner edges, an auxiliary support comprising side pieces and suitably-disposed cross strips or braces, between which the main supports are accommodated, and
25 bails pivoted on these cross-braces and arranged to swing over and engage the said notches to retain the supports in the relative position to which they have been adjusted, as set forth.

In testimony that I claim the foregoing as my
own I have hereto affixed my signature in presence of two witnesses. 30

GEORGE WASHINGTON STAMBAUGH.

Witnesses:

HENRY H. PADON,
JOHN S. PETERMAN.