

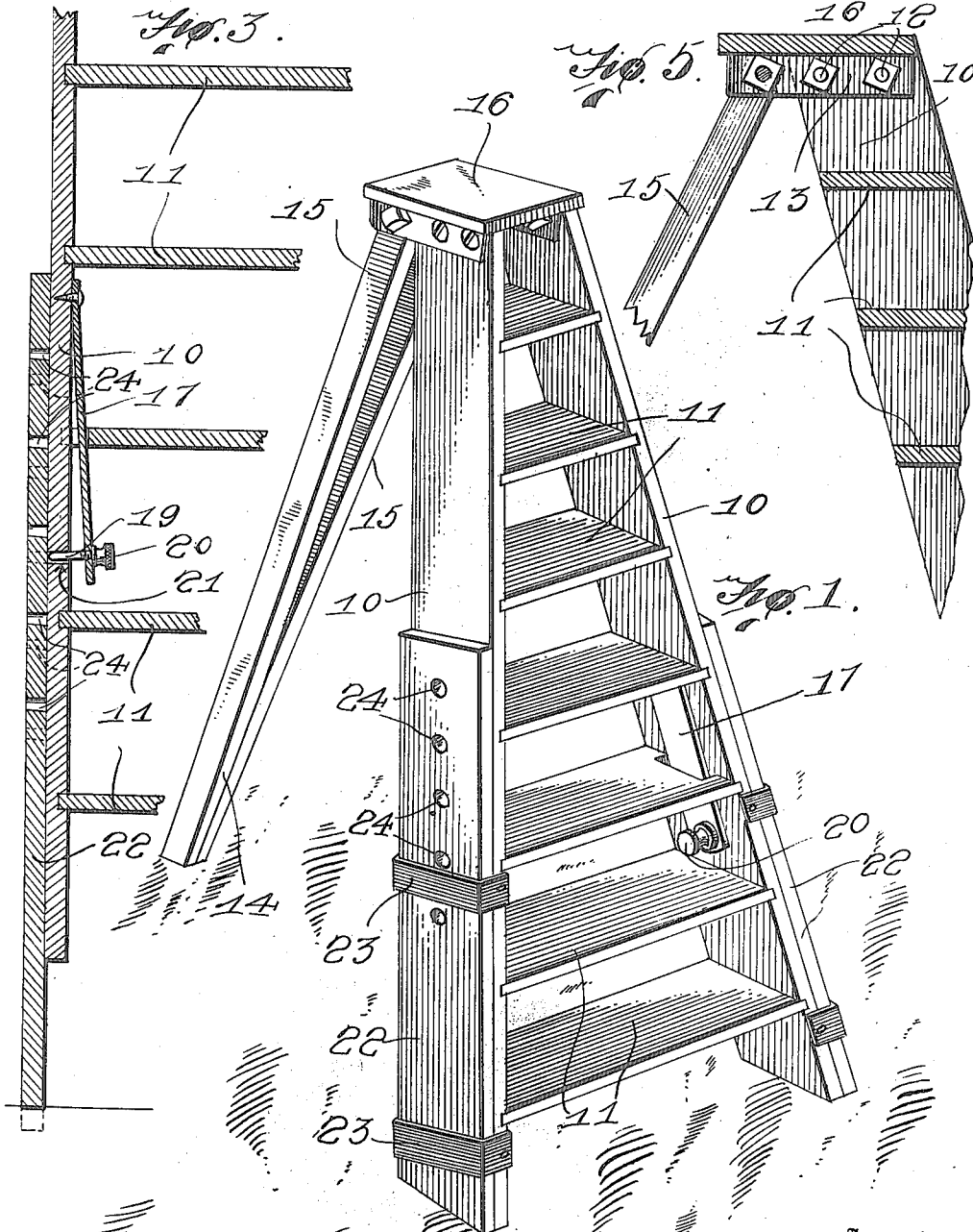
W. A. TYLER.
EXTENSION STEP LADDER.

APPLICATION FILED JUNE 14, 1913. RENEWED MAR. 18, 1915.

1,157,739.

Patented Oct. 26, 1915.

2 SHEETS—SHEET 1.



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By

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Witnesses

C. R. Hardy
Wade Koontz

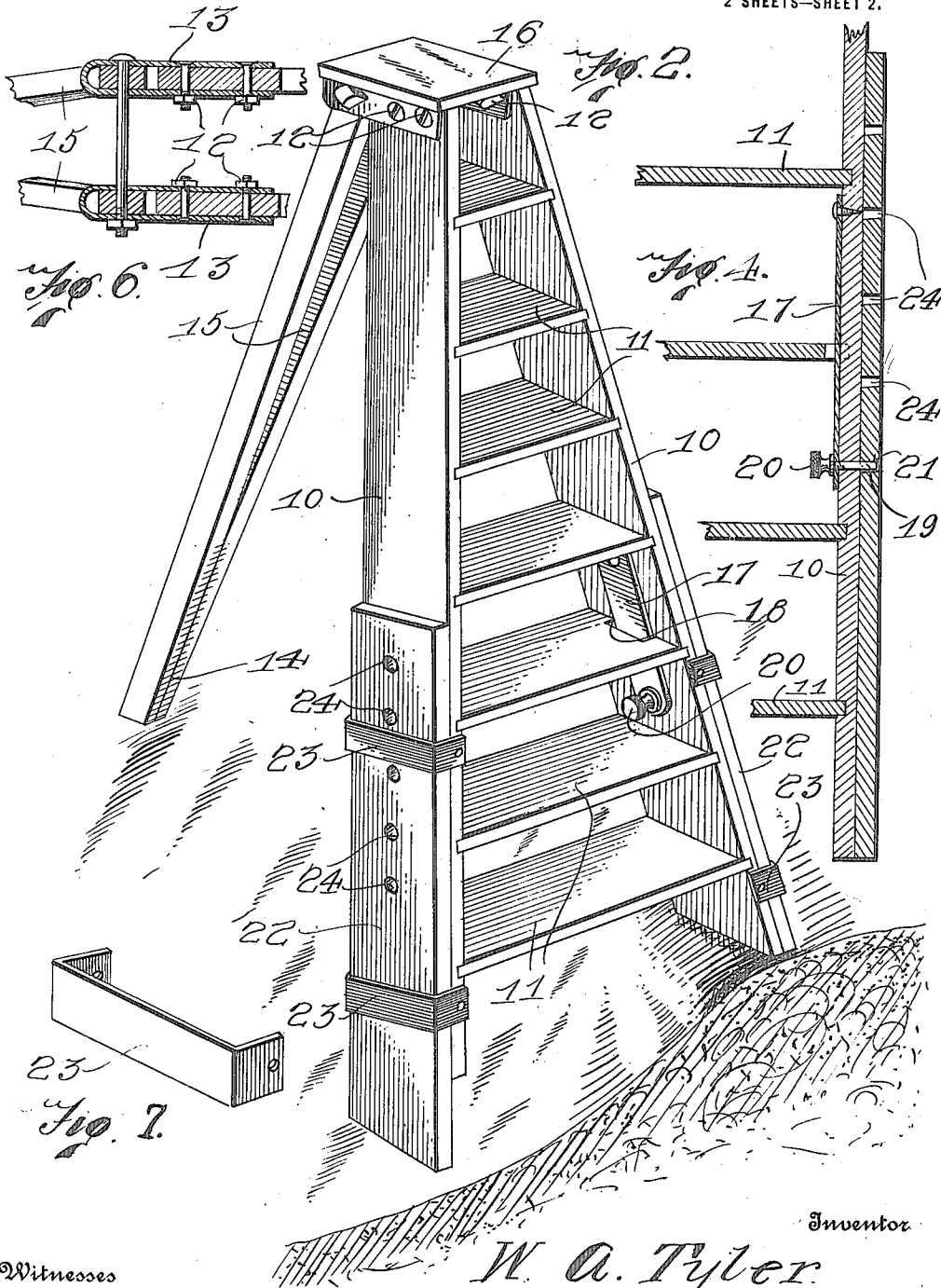
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UNITED STATES PATENT OFFICE.

WILLIAM AUGUSTUS TYLER, OF DAISY, WASHINGTON.

EXTENSION STEP-LADDER.

1,157,739.

Specification of Letters Patent.

Patented Oct. 26, 1915.

Application filed June 14, 1913, Serial No. 773,705. Renewed March 18, 1915. Serial No. 15,387.

To all whom it may concern:

Be it known that I, WILLIAM AUGUSTUS TYLER, a citizen of the United States, residing at Daisy, in the county of Stevens and State of Washington, have invented certain new and useful Improvements in Extension Step-Ladders, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to ladders and has for its object the production of a ladder that will firmly stand on a hillside or on roughened or irregular ground.

Another object of this invention is the production of a novel means of securing the adjustable legs upon the primary legs of the ladder.

A still further object of this invention is to provide an improved locking means to be used with this device.

With these and other objects in view this invention consists of certain novel combinations, constructions and arrangements of parts as will be hereinafter fully described and claimed.

In the accompanying drawing: Figure 1 is a perspective view of the ladder in a set-up position. Fig. 2 is a perspective view of the ladder in a set-up position with one leg in an adjusted position. Fig. 3 is a section taken through one of the primary legs showing the locking strip in a locked position. Fig. 4 is a section taken through one of the primary legs with the locking bolt in a disengaged position. Fig. 5 is a transverse section taken through the top of the ladder. Fig. 6 is a section taken on line 6-6 of Fig. 2. Fig. 7 is a perspective view of one of the guiding plates used with this device.

Referring to the parts by reference numerals this ladder consists of the primary legs 10 having the ordinary graduating steps 11 secured between the same, and having secured at their upper ends the U-shaped strap members 13 which are secured to the primary legs 10 by means of the bolts 12. An ordinary bracing leg 14 provided with flared upper members 15 is pivotally mounted in the outer end of the U-shaped strap members 12. Mounted upon the top of these strap members 13 is a shelf 16.

Secured to the inner face of the primary legs 10 are spring locking strips 17 that pass through the cut out portion 18 of one of the steps and each has at its lower end the lock-

ing bolt 19 on which is mounted the operating knob 20. This locking bolt 19 is adapted to pass through the opening 21 in the primary legs.

Mounted on the primary legs 10 and straddling the adjustable legs 22 are the substantially U-shaped guiding plates 23. A series of alined openings 24 are formed in the adjustable legs 22 and are adapted to be brought into alinement with the opening 21 of the primary leg so as to allow the bolt 19 to pass through the alined openings to hold the adjustable leg in the desired position.

It will be seen from the foregoing description that when it is desired to use this device on rough or unlevel ground all that is necessary is to pull the operating knob 20 which will in turn withdraw the bolt 19 from the alined openings, and the adjustable leg 22 can be moved to the desired position, and the bolt 19 will by means of the spring 17 pass itself in the alined openings of the adjustable position.

It is obvious that minor changes may be made in the form and construction of this invention without departing from the spirit thereof. It is therefore not wished to confine the invention to the exact form herein shown and described, but it is wished to include all such as properly come within the scope claimed.

What is claimed, is:

A ladder comprising a pair of primary legs resilient strips on the inner faces of said legs having bolts at the lower ends thereof, steps between said legs one of said steps adjacent said strips provided with a cut out portion, to limit the outward movement of said strips and to prevent the lateral swing of said strips should the same be engaged with any foreign object, said primary legs having openings through which said bolts are adapted to pass and adjustable legs carried by said primary legs and having a plurality of openings adapted to register with said openings in said primary legs to lock said adjustable legs in a desired position.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

WILLIAM AUGUSTUS TYLER.

Witnesses:

C. M. DEAKINS,
G. L. DUCKWORTH.