J. Y. SAVAGE.

STEP LADDER.

APPLICATION FILED JUNE 13, 1913.

1,134,491.

Patented Apr. 6, 1915.

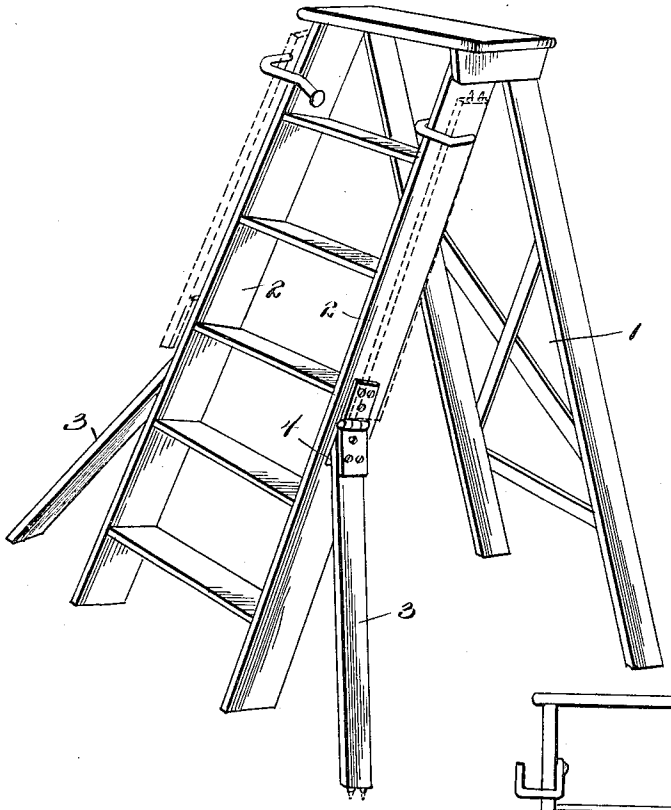



Fig. 1

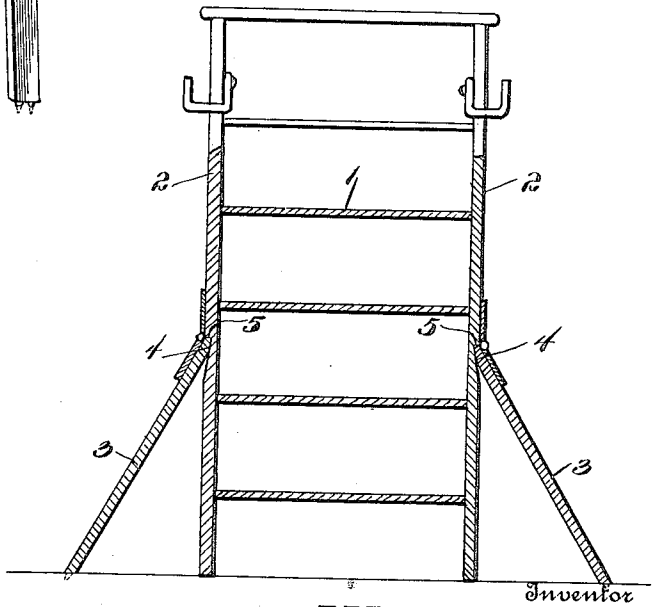



Fig. 2

Witnesses

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# UNITED STATES PATENT OFFICE.

JOHN Y. SAVAGE, OF SCOTLAND NECK, NORTH CAROLINA.

## STEP-LADDER.

1,134,491. Specification of Letters Patent. Patented Apr. 6, 1915.

Application filed June 13, 1913. Serial No. 773,511.

*To all whom it may concern:*

Be it known that I, JOHN Y. SAVAGE, a citizen of the United States, residing at Scotland Neck, in the county of Halifax and State of North Carolina, have invented new and useful Improvements in Step-Ladders, of which the following is a specification.

This invention relates to step ladders and the principal object of the invention is to provide a simple and efficient device for increasing the stability of the ladder when in use and to so construct said ladder that the stabilizing means may readily be moved to inoperative position out of the way.

A still further object of the invention is the provision of a device of this character having pivoted or hinged bracing legs together with means for taking the strain off the hinged bolts when the braces are in use.

Further objects of this invention will appear as the following specific description is read in connection with the accompanying drawing, which forms a part of this application, and in which:—

Figure 1 is a perspective view. Fig. 2 is a detail vertical sectional view.

Referring more particularly to the drawing, 1 represents the ladder and 2 the supporting legs which are pivoted thereto in the usual manner and are held in extended position by any suitable device. Hinged to the legs at a point slightly below their longitudinal centers are lateral braces 3 which have their ends preferably provided with entering points or prongs which are adapted to enter the surface whereupon the ladder is resting and to prevent the legs or struts from slipping. Immediately beneath the hinged end of the braces 3, the legs of the ladder are formed with sockets 4 which produce limiting shoulders 5 adapted to be engaged by the end of the braces 3 when thrown to operative position. Also pivoted upon the ladder legs are suitable catches which hold the braces in inoperative position, as shown in dotted lines in Fig. 1. When the braces are thrown to operative position, the upper ends thereof will engage the shoulders produced at the upper end of the sockets, and thus the strain will be taken off the hinge bolts. These lateral braces 3 will adjust themselves readily to any inaccuracies in the surface upon which the ladder is supported.

What is claimed is:—

A step ladder comprising socketed rung supporting members or side pieces, rungs and a top piece connecting the same, said sockets forming shoulders, lateral braces for the ladder, hinges secured to the rung supporting member above the socket and to the braces, said braces having their ends adapted to engage said shoulders to remove the strain from the hinges, said braces adapted to turn upwardly against the rung supporting members beneath the top piece, and means for holding the braces in elevated position against and parallel with the said members.

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

JOHN Y. SAVAGE.

Witnesses:
C. SPEED,
B. S. COURTNEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."