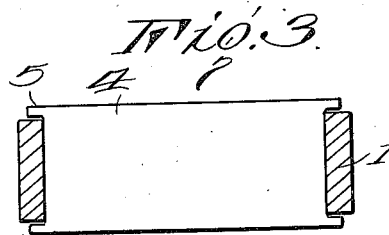
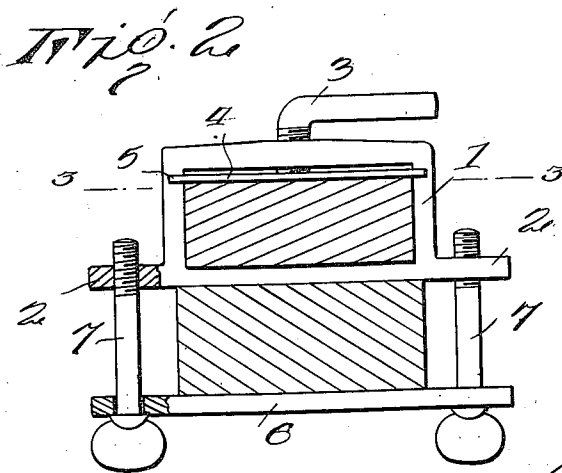
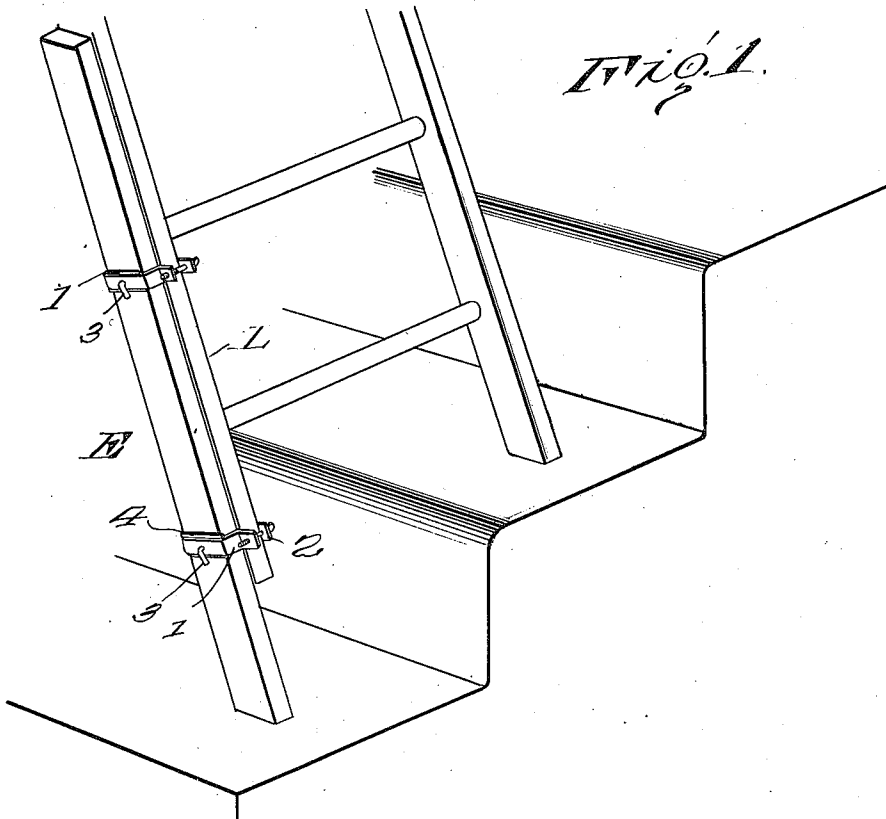


F. G. WATSON.
STILE EXTENSION CLAMP FOR LADDERS.
APPLICATION FILED APR. 24, 1917.

Patented Jan. 7, 1919.

1,290,690.



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FRANK G. WATSON, OF WEBSTER, NEW YORK.

STILE-EXTENSION CLAMP FOR LADDERS.

1,290,690.

Specification of Letters Patent.

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Application filed April 24, 1917. Serial No. 164,188.

To all whom it may concern:

Be it known that I, FRANK G. WATSON, a citizen of the United States, and resident of Webster, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Stile-Extension Clamps for Ladders, of which the following is a specification.

This invention relates, generally, to ladders and the invention has more especial reference to an improved stile extension clamp therefor.

The dominant object of the invention is to provide a clamp for securing a stile extension leg in position upon its respective stile in order that the ladder can be properly set up on uneven or irregular surfaces without liability of falling when in use.

It is also an object of the invention to provide a clamp of the character mentioned which can be readily used upon either of the stiles of the ladder for securing an extension in adjusted position thereto.

Among other aims and objects of the invention may be recited, the provision of a device of the character mentioned with a view to compactness, in which the number of parts is small, the construction simple, the cost of production small, and efficiency of operation high.

All of the foregoing together with additional advantageous details and arrangement of parts of the preferred embodiment of my invention will be clear from the specific description hereinafter contained, when read in connection with the accompanying drawings, forming part thereof, wherein said embodiment of the invention is illustrated for the purpose of facilitating a full understanding of the present improvements.

In the drawings:

Figure 1 is a fragmentary detail in perspective showing the improved extension clamp as applied to a ladder when set up upon an uneven surface;

Fig. 2 is a horizontal section through the stile and extension of the ladder, parts of the clamp being shown in section; and

Fig. 3 is a cross section through the clamp taken on the line 3—3 of Fig. 2.

Referring now more particularly to the drawings, in connection with which like reference characters will designate corresponding parts throughout the several views, it is to be noted that I have shown

the improved clamp as applied to one of the stiles of a ladder L for securing the extension leg E in adjusted position upon one of the stiles thereof. However, in this connection, it is to be understood that the scope of application of the clamp is not to be limited to this particular arrangement but may be varied, such as conditions or preference may dictate. The improved clamp comprises a yoke member 1 having apertured laterally projecting lugs 2 formed adjacent the base thereof and upon its opposite end portion, the said apertures in the lugs 2 being screw threaded, the purpose of which will be subsequently apparent. Within the upper or top portion of the yoke 1, preferably intermediate its ends, there is formed a screw threaded opening through which a hand adjusting screw 3 is passed, the said adjusting screw being provided with an angularly disposed portion serving as an efficient handle therefor. Working within the yoke 1 is a bearing plate 4 having laterally extending guide lugs 5 formed upon the various corners thereof, which guide lugs serve as means for preventing lateral displacement of the bearing plate when the same is arranged between the end pieces of the yoke 1.

A securing plate 6 having its opposite extremities apertured is also provided and is connected to the apertured lugs 2 of the said yoke 1 by means of thumb screws 7 passing therethrough into engagement with the screw threaded openings formed in the said lugs 2.

In operation when it is desired to employ the improved clamp as a means for securing the extension leg E to one of the stiles of the ladder L, the yoke 1 is secured to the said stile by means of the securing plate 6 and the thumb screws 7, the latter of course being tightened to securely engage the plate 6 with the adjacent surface of the said stile. Then, the extension leg E is passed through the yoke 1 and when in proper position is locked with relation thereto by turning the hand screw 3 into engagement with the bearing plate 4, thus, forcing the said bearing plate onto the adjacent surface of the said extension leg and securing the same to the ladder stile.

Manifestly, the construction shown is capable of considerable modification and such modification as is within the scope of

my claim, I consider within the spirit of my invention.

I claim:

5 A clamp of the character described including a closed substantially rectangular yoke formed in a single piece having later-
ally extending lugs formed thereon adjacent
one side, said side forming an immovable
bearing and partition, the remaining side
10 of the yoke having a screw threaded opening therein, a screw engaged in said screw

threaded opening, a bearing plate having
its end portions recessed loosely and slid-
ably engaged with said yoke and adapted
to be engaged intermediate its ends by the 15
screw, an apertured bar, and screws engaged
with said apertured bar and the apertured
laterally extending lugs for connecting the
bar to said yoke.

In testimony whereof, I affix my signature 20
hereto.

FRANK G. WATSON.