Nov. 12, 1929. W. C. HEIDEL 1,735,003

FOOT SUPPORT FOR LADDERS

Filed May 4, 1927

Fig. 1.

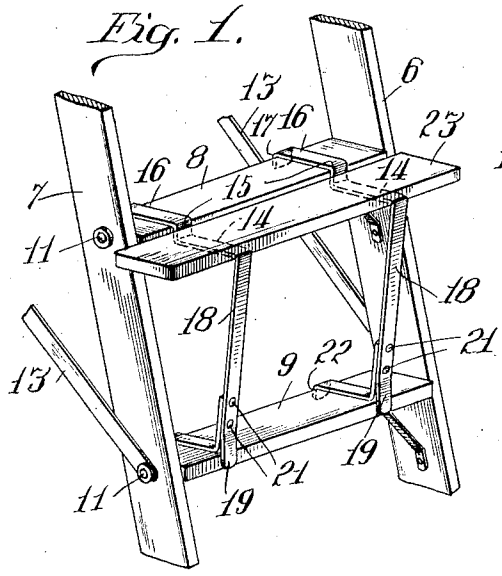


Fig. 2.

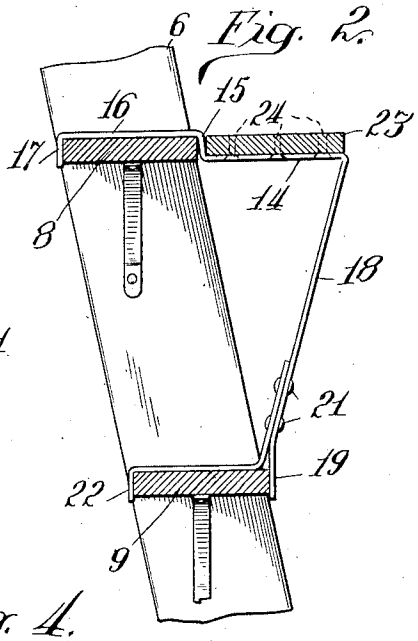


Fig. 4.

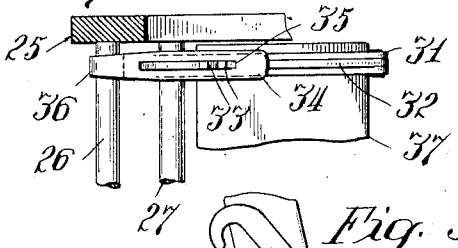


Fig. 3.

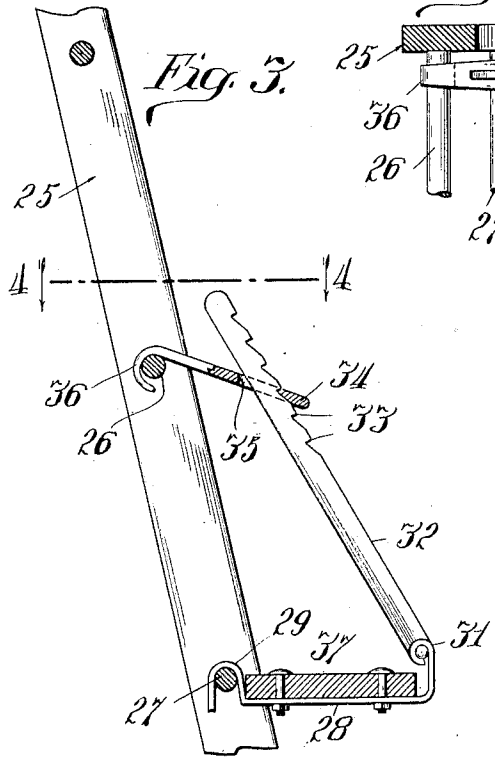
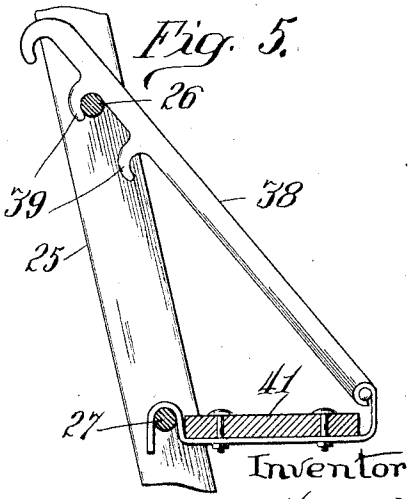


Fig. 5.



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UNITED STATES PATENT OFFICE

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FOOT SUPPORT FOR LADDERS

Application filed May 4, 1927. Serial No. 188,724.

The invention relates to extension foot supports adapted to be attached to a ladder.

An object of the invention is to construct a foot support that may be attached to any ladder to increase the foot room and make the ladder capable of being used for a long period of time without tiring one's feet.

An object of the invention is to construct a support of this kind that is particularly adapted to the use of sculptors for they are required to remain on the foot support for a long period of time due to the nature of their work.

With the foregoing and such other objects in view as will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment herein described, may be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawings:

Fig. 1 is a fragmental elevational view of the support shown attached to the ordinary step ladder.

Fig. 2 is a longitudinal vertical sectional view taken through the device as disclosed in Fig. 1.

Fig. 3 is a modified form of the invention shown partly in section and partly in elevation.

Fig. 4 is a transverse section taken on line 4—4 of Fig. 3.

Fig. 5 is still another modified form of the invention shown partly in section and partly in elevation.

The ladder, as illustrated in Fig. 1, comprises sides 6 and 7 having steps 8 and 9 spaced therebetween and held in place by any suitable fastening means such as indicated at 11.

The usual braces 13 are secured to the sides 6 and 7, and are connected to the rear legs of the ladder, said legs not being shown in the drawing.

A bracket comprising a horizontal portion 14 is bent upwardly at its rear end, as at 15, substantially vertically, then horizontal as at 16 and downwardly as at 17 substantially parallel to the portion 15 to form means for engaging the front and rear edges of a step 8.

The other end of the bracket extends downwardly and inwardly as at 18, the lower end 19 being bent slightly outwardly to adapt it to engage the front edge of the step 9 and provide means for securing a member to this bracket by rivets 21. The end of this member extends inwardly substantially parallel to the step 9, and then downwardly as at 22 to engage the rear edges of the step 9. One of these brackets is secured to each end of the foot support 23 and as indicated riveted thereto as at 24.

It will be obvious from the above that the bent portions 15, 17, 22 and the portion 19 will hold the extension securely in place substantially flush with the step 8.

In the modification shown in Fig. 3, a side of the ladder 25 is shown with the rungs 26 and 27 indicated in section. A bent bar 28 has one end 29 formed hook shaped and adapted to engage a rung 27 of the ladder, the other end of the bar is bent upwardly and eyed to form a bearing as at 31. To this bearing a link 32 is pivotally secured in which notches or teeth 33 are provided to engage with a member 34 in which a slot 35 is provided, and which has a hook formed end 36 to engage the rung 26 of the ladder.

A foot support 37 is secured to two of these bars 28. In order to adjust the level of the foot support, it may be raised or lowered by means of the slot 35 and notches 33 so as to always maintain a horizontal position of the foot support no matter what position the ladder is placed in.

The modification shown in Fig. 5 is in all respects similar to that shown in Fig. 3, except that it has a link 38 having hooked portions 39 formed integral therewith so that to adjust the foot support 41 it is only necessary to engage another hooked portion 39 with a rung of the ladder.

I claim:

The combination with the steps of a step ladder, of a pair of brackets arranged for engagement with each end of an upper step of said step ladder, each of said brackets

comprising a horizontal supporting portion bent upwardly and substantially vertically at its rear end, then horizontally to fit over the top of a step and then downwardly to engage the rear edge of a step, the forward end of each horizontal portion being bent downwardly and rearwardly to the outer edge of a lower step, the lower end of the bracket being bent slightly outwardly to engage the front edge of the lower step; a securing member secured to the lower portion of each bracket extending therefrom inwardly substantially horizontally to rest upon the top of the lower step and then turned downwardly at its rear end to engage the rear edge of said step; and a support secured to the said upper horizontal supporting portions of said brackets in substantial registration with said upper step.

In testimony whereof I affix my signature at 10 So. La Salle Street, Chicago, Illinois.

WALTER C. HEIDEL.