Jan. 5, 1926. **1,568,885**

E. C. DERBY

BOARD FORCING TOOL

Filed August 27, 1925

Fig. 1.

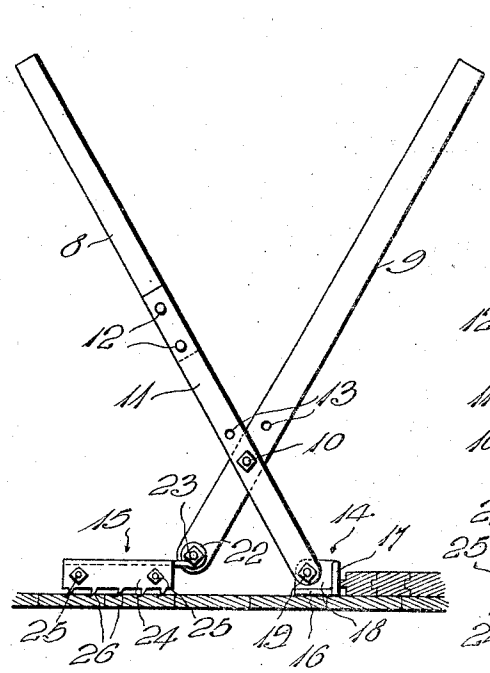


Fig. 2.

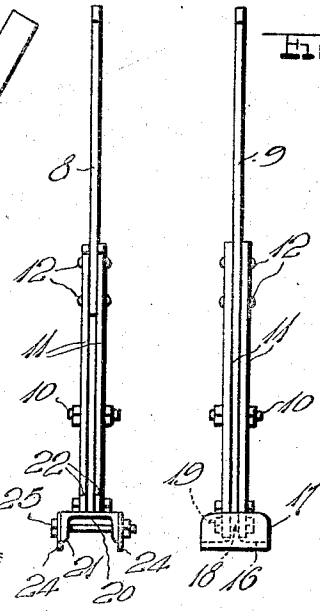


Fig. 3.

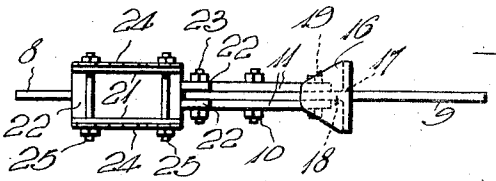


Fig. 4.

Fig. 6.

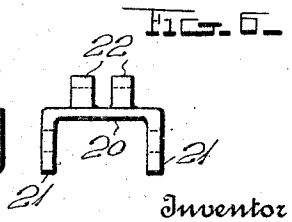


Fig. 7.

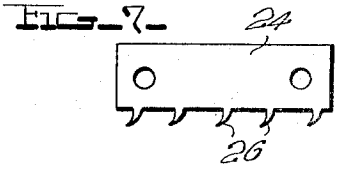
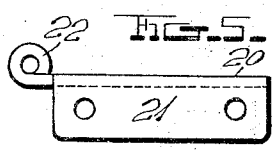


Fig. 5.



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UNITED STATES PATENT OFFICE.

EDGAR C. DERBY, OF MOBERLY, MISSOURI.

BOARD-FORCING TOOL.

Application filed August 27, 1925. Serial No. 52,907.

To all whom it may concern:

Be it known that I, EDGAR C. DERBY, a citizen of the United States, residing at Moberly, in the county of Randolph and State of Missouri, have invented certain new and useful Improvements in Board-Forcing Tools; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in tools which are designed for the purpose of forcing boards, such as tongued and grooved flooring boards, into tight contact with each other and holding them while said boards are being nailed.

The object is to provide an exceptionally simple and inexpensive tool of the character set forth, yet one which will be highly efficient and in every way desirable.

With the foregoing in view, the invention resides in the novel subject matter hereinafter described and claimed, the description being supplemented by the accompanying drawing.

Figure 1 is a side elevation showing the tool in use.

Figures 2 and 3 are edge views looking in opposite directions.

Figure 4 is a lower end elevation.

Figures 5 and 6 are respectively a side elevation and an end elevation of one of the shoes with which the device is provided.

Figure 7 is a side elevation of one of the toothed anti-slipping plates which are secured to the shoe shown in Figs. 5 and 6.

In the drawings above briefly described, the numerals 8 and 9 designate a pair of crossed levers which are fulcrumed to each other at their crossing point, by a bolt or the like 10, the lever 8 being provided with spaced, parallel furcations 11 between which the lever 9 passes. These furcations are preferably formed of separate pieces of metal secured by rivets or other preferred fasteners 12, to the remainder of the lever 8. If desired, the two levers may have openings 13 to receive the bolt 10, permitting adjustment of the two levers 8 and 9, as occasion may demand.

Shoes 14 and 15 respectively are pivoted to the lower ends of the levers 8 and 9. The shoe 14 comprises a flat bottom plate 16, an upstanding end flange 17 integral with one end of said plate 16, and a central, upstanding longitudinal flange or web 18 integral with the plate 16 and the flange 17, this flange or web 18 being received between the furcations 11 and pivoted thereto by a bolt 19 or some other appropriate pivot.

The shoe 15 comprises a rectangular top plate 20 having a pair of parallel, downwardly bent flanges 21, one end of said plate 20 being provided with appropriate lugs or knuckles 22 between which the lower end of the lever 9 is received, said lugs and lever being pivoted to each other by a bolt or the like 23, this structure forming an unobstructed top surface upon which the operator may place his foot to hold the shoe against shifting. Flat, steel plates 24 contact with the outer sides of the flanges 21 and are secured thereto by bolts 25 which pass through said plates and flanges. These plates are provided with integral teeth 26 which project downwardly from the lower edges of the flanges 21 to engage sub-flooring, joists or the like, so as to anti-slippingly hold the shoe 15 while the levers 8 and 9 are being operated to cause the shoe 14 to force one board toward another, as will be clear from Fig. 1.

The invention is exceptionally simple and inexpensive, yet is efficient, reliable and easy to operate, and on account of the advantages existing for the details disclosed, they are by preference followed. However, within the scope of the invention as claimed, modifications may of course be made, and it will be understood that the tool may be constructed in any desired size or sizes.

I claim:

1. A board-shifting tool comprising a pair of crossed levers whose upper ends are exposed to be gripped by hand, said levers being fulcrumed together at their crossing point, one of said levers having parallel furcations between which the other lever passes, a shoe having a web portion straddled by the free ends of said furcations, a pivot passing through said furcations and said web portion, another shoe having spaced lugs between which an end of the other lever is received, and another pivot passing through said lugs and the intervening lever end, one of said shoes having anti-slipping teeth, the other being adapted to engage a board to be forced toward a previously laid board.

2. In a board-shifting tool, a shoe com-

prising a top plate provided with integral downwardly bent parallel flanges and formed also with an integral apertured lug arranged at one end for connecting it to another part and to leave an unobstructed upper face on which an operator's foot may be placed, and plates contacting with and secured to said flanges, said plates having integral anti-slipping teeth projecting beyond said flanges.

In testimony whereof I have hereunto affixed my signature.

EDGAR C. DERBY.