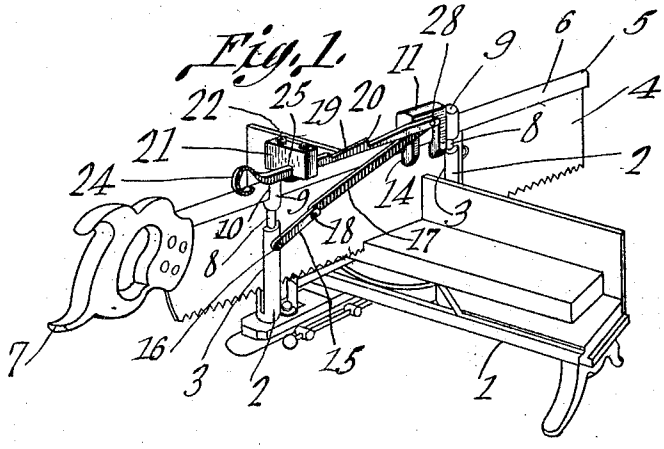
March 16, 1926. 1,576,514

J. H. KEETER

SAW LIFT

Filed Feb. 16, 1925

Fig. 1.



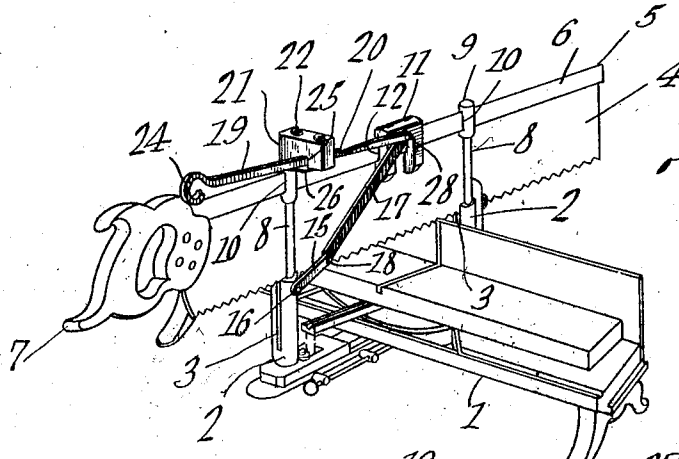
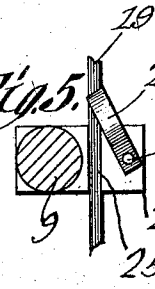


Fig. 2.

Fig. 5.



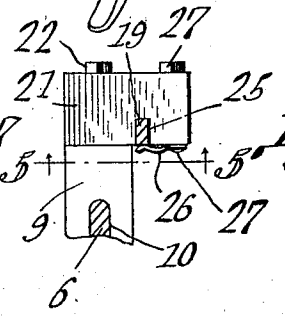
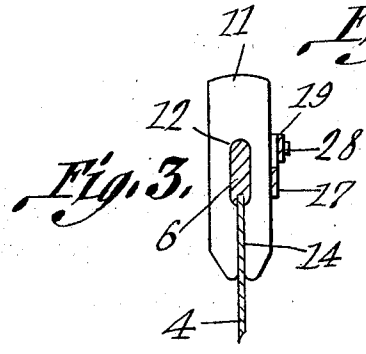


Fig. 4.

Fig. 3.



Inventor

J. H. Keeter

By C. A. Snow & Co.

Attorneys

Patented Mar. 16, 1926. 1,576,514

UNITED STATES PATENT OFFICE.

JOHN H. KEETER, OF CHARLOTTE, NORTH CAROLINA.

SAW LIFT.

Application filed February 16, 1925. Serial No. 9,565.

To all whom it may concern:

Be it known that I, JOHN H. KEETER, a citizen of the United States, residing at Charlotte, in the county of Mecklenburg and State of North Carolina, have invented a new and useful Saw Lift, of which the following is a specification.

This invention aims to provide novel means whereby an operator may lift a back saw whilst the same is being used in a miter box.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the invention appertains.

With the above and other objects in view which 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 of the invention herein disclosed may be made within the scope of what is claimed without departing from the spirit of the invention.

In the accompanying drawings:—

Figure 1 shows in perspective, a device constructed in accordance with the invention, the saw being lowered; Figure 2 is a similar view wherein the saw is shown raised; Figure 3 is a transverse sectional view showing the guide; Figure 4 is a fragmental elevation disclosing the keeper wherewith the operating member coacts; and Figure 5 is a section on the line 5—5 of Figure 4.

The numeral 1 marks a miter box including standards 2 which are slotted at 3 to receive, for reciprocation, the blade 4 of a saw 5 including a back 6 and a handle 7. Posts 8 are vertically slidable in the standards 2 and are supplied at their upper ends with enlarged heads 9 having openings 10 wherein the back 6 of the saw is received, the construction being such that when the saw 5 is raised, or lowered, the posts 8 will participate in the movement and slide vertically in the standards 2. The construction above alluded to is common, and no novelty is claimed for it, saving in so far as it may enter into patentable combinations with parts hereinafter described.

In carrying out the invention, there is provided a guide 11 having a passage 12 and a slot 14, the back 6 of the saw being mounted for reciprocation in the passage 12, and the blade 4 of the saw being mounted for reciprocation in the slot 14. A fulcrum bracket 15 is secured at 16 to one of the standards 2, and projects therefrom. The numeral 17 designates a radius arm which is pivoted at one end, as indicated at 18, to the fulcrum bracket 15. The numeral 19 denotes an operating member located at an acute angle to the radius arm 17, the operating member being supplied in its upper edge with a rack 20. The operating member 19 slides in a guide slot 25 formed in the lower edge of a laterally extended keeper 21 secured at 22 on the head 9 of one of the posts 8. A spring 26 is secured at 27 to the keeper 21 and bears against the lower edge of the operating member 19. At one end, the operating member 19 is supplied with a handle or finger socket 24. Through the instrumentality of a pivot element 28, one end of the radius arm 17 and the corresponding end of the operating member 19 are connected for swinging movement to the guide 11.

In practical operation, when the operator wishes to raise the saw 5, he slips one finger of the hand which is engaged with the handle 7, through the socket 24 and draws the saw backwardly into the position shown in Figure 2, the radius arm 17 cooperating with the guide 11, to raise the saw, the rack 20 on the operating member 19 being engaged automatically with the keeper 21, by the action of the spring 26, to hold the saw elevated, the operating member 19 sliding in the guide groove 25 of the keeper 21.

Having thus described the invention, what is claimed is:—

A miter box including standards, posts slidable in the standards and provided with means for receiving a saw slidably, a guide disposed between the posts and provided with means for supporting a saw for sliding movement, a radius arm, means for mounting the radius arm pivotally on one post, means for connecting the radius arm pivotally to the guide, an operating member pivoted at one end to the guide, and means carried by one standard for supporting the operating member for movement in a direction substantially parallel to the direction in which a saw moves in the standards and in the guide.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature,

JOHN H. KEETER.