

J. C. RENNIE.

SAW GUIDE.

APPLICATION FILED MAR. 27, 1907.

930,228.

Patented Aug. 3, 1909.

2 SHEETS—SHEET 1.

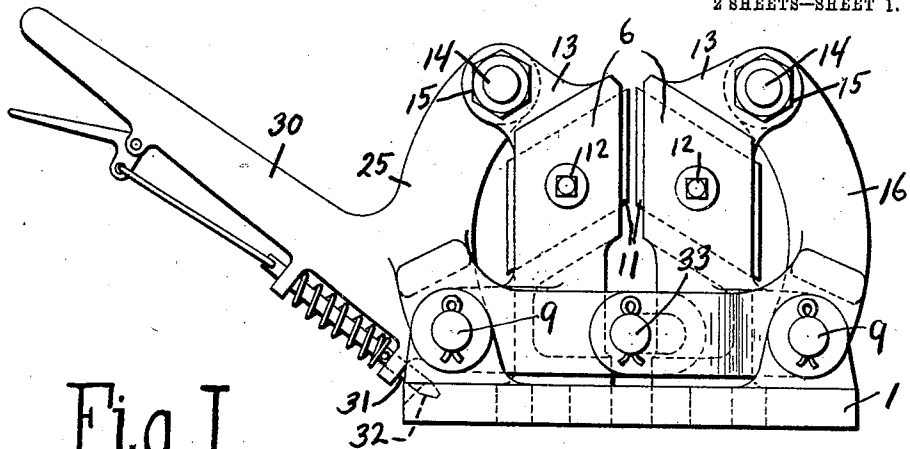


Fig. I.

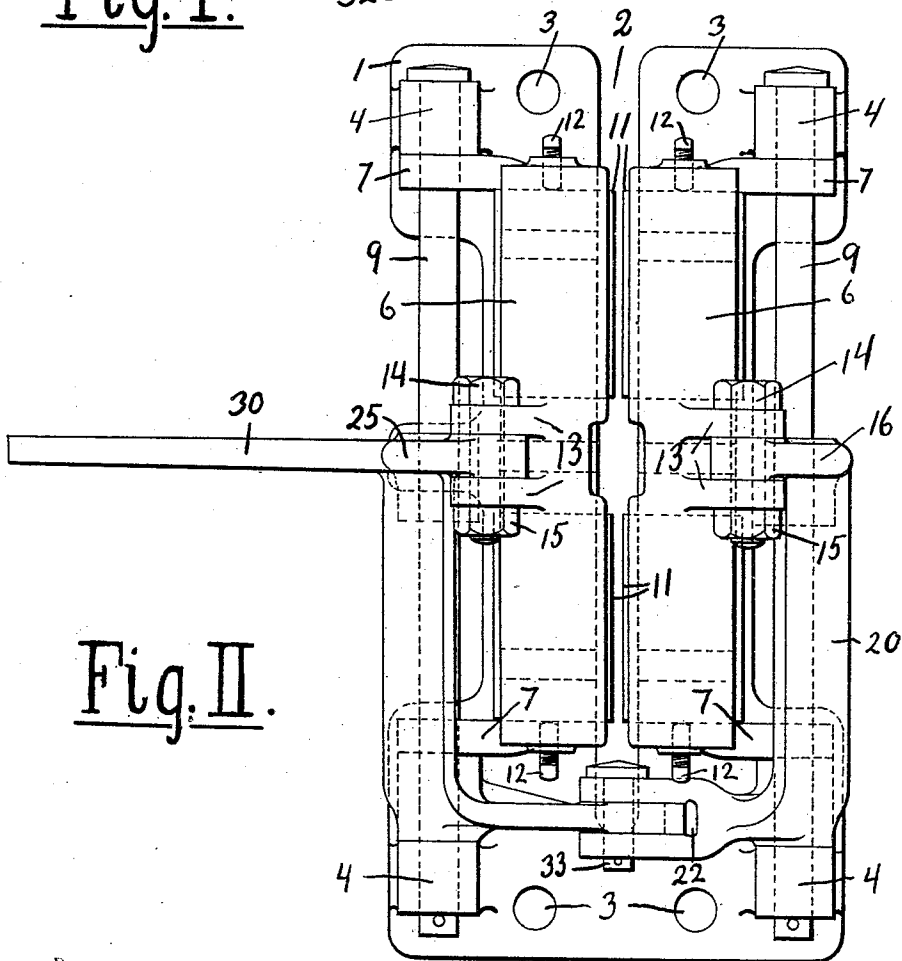


Fig. II.

WITNESSES:
Frank E. Dennett
Ella Brickell

J. C. Rennie INVENTOR
BY
G. J. DeWitt ATTORNEY.

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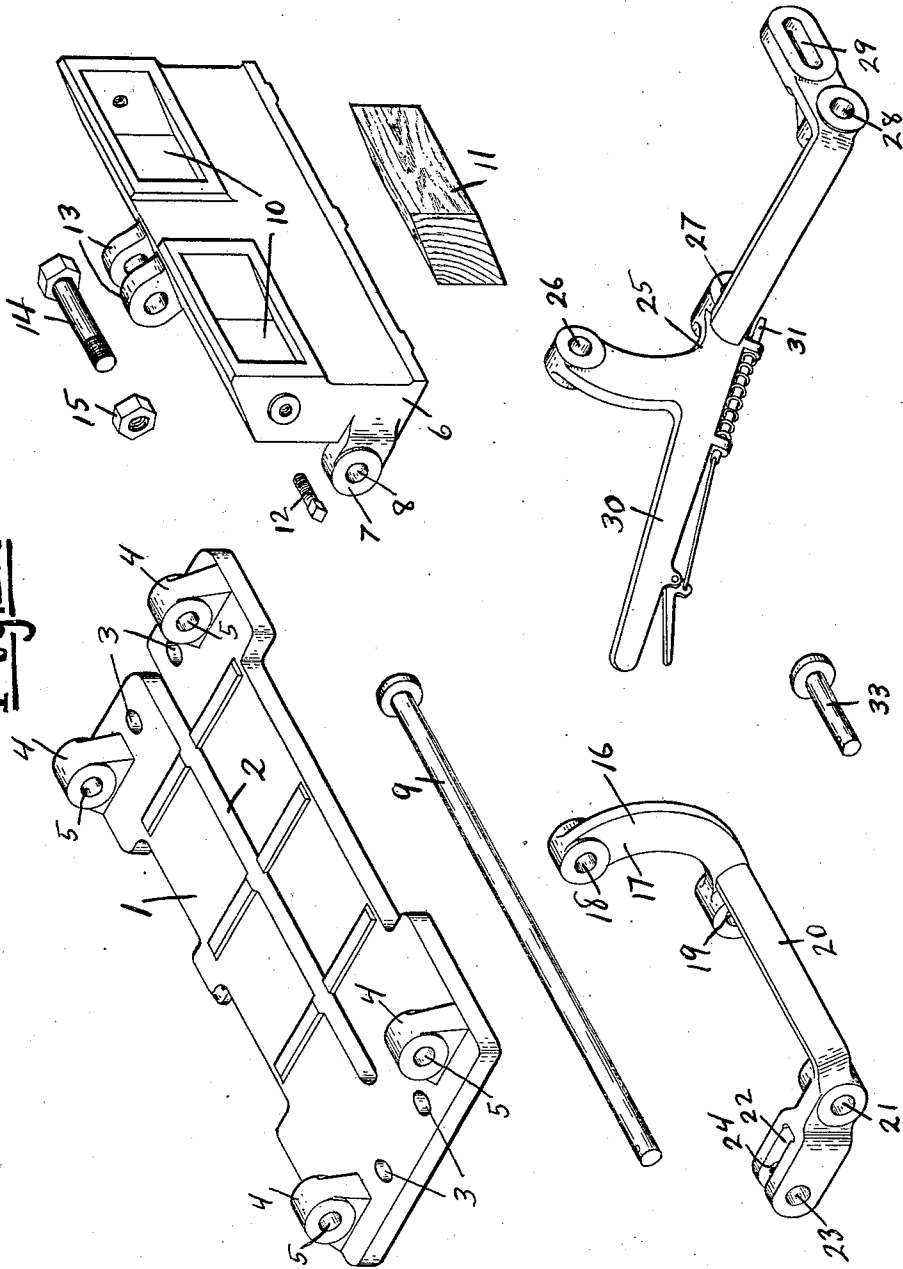
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Fig. III.



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UNITED STATES PATENT OFFICE.

JOHN C. RENNIE, OF MILWAUKEE, WISCONSIN, ASSIGNOR TO ALLIS-CHALMERS COMPANY,
OF MILWAUKEE, WISCONSIN, A CORPORATION OF NEW JERSEY.

SAW-GUIDE.

No. 930,228.

Specification of Letters Patent.

Patented Aug. 3, 1909.

Application filed March 27, 1907. Serial No. 364,816.

To all whom it may concern:

Be it known that I, JOHN C. RENNIE, a subject of the King of Great Britain, residing at Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented a certain new and useful Saw-Guide, of which the following is a specification.

This invention relates to saw guides and more specifically to the lower saw guides used in connection with band saw mills, though it is adapted to be used with other forms of saws operated by other forms of mills.

The invention comprises two guide members which are adapted to be moved into close proximity to the saw to be guided, or to be both removed from the saw, simple means being provided whereby when the guides are in proximity to the saw they are securely locked against accidental displacement.

Referring to the drawings which accompany this specification and form a part thereof and on which the same reference characters designate the same elements wherever they may appear in each of the several views,—Figure 1 illustrates an end elevation of a saw guide embodying this invention; Fig. 2 illustrates a plan view thereof; and Fig. 3 illustrates, in perspective, details thereof.

Referring to the drawings, the numeral 1 designates a bedplate which is adapted to be secured to the saw bed, said plate being provided with the slot 2 within which the saw is adapted to be received. This bedplate is provided with bolt holes 3 for securing it in place, and with four lugs 4, two of which are located at each end of the bedplate and are provided with apertures 5 extending in the lengthwise direction of the bedplate.

The numeral 6 designates the guides proper which are specifically elongated blocks provided with lugs 7, which are apertured at 8, through which apertures and the apertures 5 of two of the lugs 4, a pin 9 is adapted to be passed, thereby hinging block 6 to the base plate 1. Two of these blocks are provided, one for each side of the saw, and preferably these blocks are provided with the inclined slots 10 within which wooden blocks 11 are adapted to be held by

set-screws 12, the wooden blocks affording the wearing surface against which the saw rubs.

Each block 6 is provided with two apertured lugs 13, through the apertures of which a bolt 14 is adapted to be passed and to be secured by nut 15. The block 6 on one side of the saw is adapted to be connected by its bolt 14 with the link 16, which consists of an arm 17, provided with the apertures 18 and 19, an arm 20 extended at right angles with the arm 17, and at its extremity being provided with a right angled portion provided with the aperture 21, the bifurcation 22, and the apertures 23 and 24. The other of said block 6 is adapted to be hinged by its bolt 14 to a similarly formed link 25 which is provided with the apertures 26, 27, 28, and the slot 29. This link 25 is also provided with the operating arm 30, to which is secured the hand-operated stop 31 adapted to engage within a notch 32 in the base plate 1. The pin 33 is adapted to be passed through the apertures 23 and 24 of link 16, and the slot 29 of link 25, and be retained by a cotter pin.

The operation of the apparatus is as follows: Referring to Fig. 1 of the drawings, if it is desired to disengage the guide from the saw, the catch 31 is released from the notch 32, the handle 30 thrown downwardly, whereupon the link 25 swings the left hand block 6 about the pin 9 and away from the saw. At the same time the pin 33 rocks the link 16, thereby swinging the right hand block 6 about its pin 9, up and away from the saw. When the blocks 6 are in their operative position, as shown by Figs. 1 and 2, they rest firmly upon the bed plate 1.

What I claim is:—

1. The combination with a base provided with a slot within which a saw is adapted to be received, of two blocks hinged to said base on opposite sides of said slot and on an axis parallel to said slot, and means connecting said blocks and adapted to cause one block to be moved when the other block is moved.

2. The combination with a base provided with a slot within which a saw is adapted to be received, of two blocks hinged to said base on opposite sides of said slot and two links, each link being directly hinged to the

base and one block, and said links being so connected that movement of one causes movement of the other.

3. The combination with a base provided
5 with a slot within which a saw is adapted to be received, of two blocks hinged to said base on opposite sides of the slot to swing in vertical planes, and two links hinged to the base on the same axes as those of the two
10 blocks and also hinged to said blocks, the links being connected so that movement of one causes movement of the other.

4. The combination with a base provided
15 with a slot within which a saw is adapted to be received, of two blocks hinged to said base on opposite sides of the slot to swing in vertical planes, and means for swinging

the blocks so that movement of one causes movement of the other.

5. The combination with a base provided 20 with a slot within which a saw is adapted to be received, of a block on each side of said slot and saw hinged to said base so as to swing toward and from each other, the base coacting to form a positive stop for the 25 blocks in their approached or closed position.

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

JOHN C. RENNIE.

Witnesses:

FRANK E. DENNETT,
ELLA BRICKELL.