No. 792,998. PATENTED JUNE 20, 1905.

J. LOKEN.

SAW CLAMP.

APPLICATION FILED MAY 14, 1904.

Fig. 1.

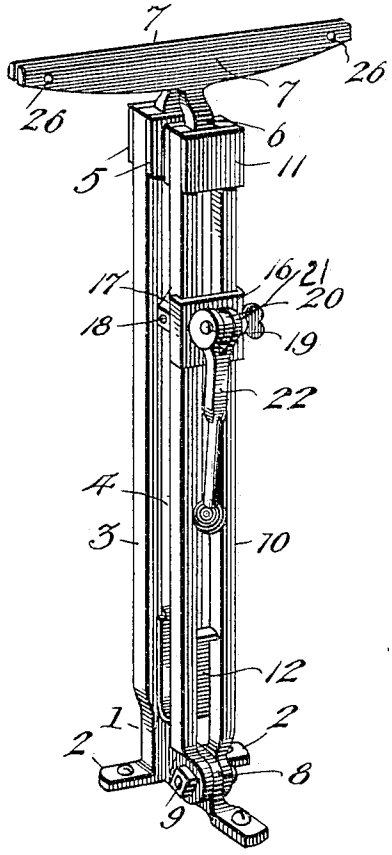


Fig. 2.

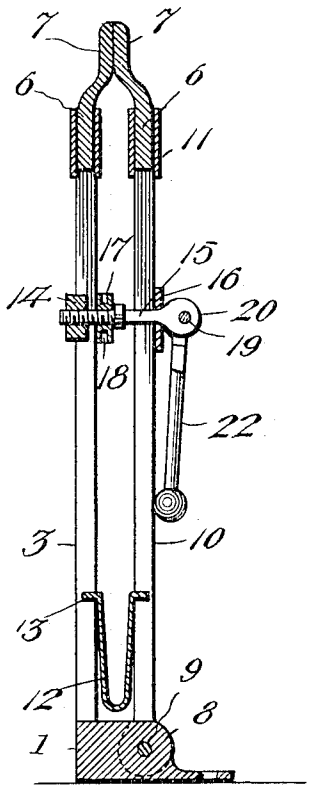


Fig. 3.

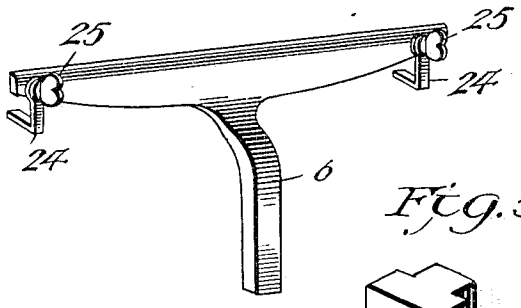


Fig. 4.

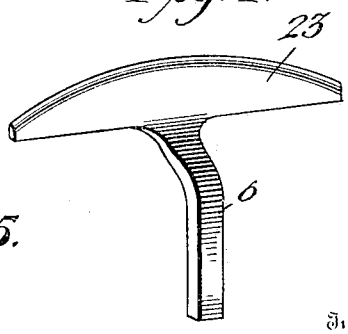
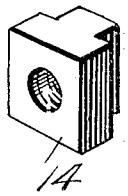


Fig. 5.



Witnesses

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No. 792,998. Patented June 20, 1905.

UNITED STATES PATENT OFFICE.

JOHN LOKEN, OF WINDOM, MINNESOTA.

SAW-CLAMP.

SPECIFICATION forming part of Letters Patent No. 792,998, dated June 20, 1905.

Application filed May 14, 1904. Serial No. 208,057.

To all whom it may concern:

Be it known that I, JOHN LOKEN, a citizen of the United States, residing at Windom, in the county of Cottonwood and State of Minnesota, have invented new and useful Improvements in Saw-Clamps, of which the following is a specification.

My invention relates to new and useful improvements in saw-clamps; and its object is to provide a simple device of this character which can be used upon circular or crosscut saws and which can be quickly clamped upon and removed from a saw.

A further object is to provide interchangeable heads whereby the clamp can be used upon different forms of saws.

With the above and other objects in view the invention consists of a base upon which is arranged a fixed standard having a socket in its upper end for the reception of the shank of a clamping-head. A movable arm is pivoted to the base and is also provided at its upper end with a socket for the reception of the shank of a head, and novel detachable clamping means are arranged upon the standard and arm for forcing the heads toward each other.

The invention also consists of the further novel construction and combination of parts hereinafter more fully described, and illustrated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is a perspective view thereof. Fig. 2 is a vertical longitudinal section. Fig. 3 is a detail view of one of the heads and showing a band-saw attachment, and Fig. 4 is a perspective view of a modified form of head for use upon circular saws. Fig. 5 is a detail perspective view of the nut.

Referring to the figures by numerals of reference, 1 is a base having ears 2 extending therefrom and adapted to be secured in any suitable manner to a floor. This base has a standard 3 integral therewith and slotted longitudinally, as shown at 4, and the upper end of the standard has cross-strips 5, which form a socket for the reception of the shank 6 of a clamping-head 7. An ear 8 extends forward from base 1, and a pivot-pin 9 projects therefrom and forms the pivot of an arm 10, which is longitudinally slotted and has cross-strips 11 at its upper end, which form a socket for the shank of another clamping-head 7. A bow-spring 12 is interposed between the standard 3 and arm 10 and has reduced ends 13, which extend at angles therefrom and project into the slots in the standard 3 and arm 10. A T-shaped nut has its reduced portion positioned within the slot 4, and its enlarged portion engages the outer face of the standard 3 to prevent the nut from being drawn within the slot, whereby the nut is slidably mounted, and this nut is engaged by the threaded end of a bolt 15, which extends through a strap 16, slidably mounted upon the outer face of arm 10. A clamping-nut 17 is mounted on the bolt 15 between the standard and arm, and this nut has recesses 18 therein, whereby the same may be readily turned by means of a suitable tool. A pin 19 extends through the head 20 of bolt 15, and mounted thereon is a cam 21, having a handle 22 projecting therefrom.

When it is desired to clamp a saw between the head 7, the handle 22 is swung upward, so as to permit the spring 12 to press arm 10 away from standard 3, thereby forming an opening between the two heads 7. A saw can then be placed therebetween and handle 22 swung downward. Cam 21 will press the arm 10 toward the standard 3, and the saw will be securely clamped into position. If it is desired to hold a circular saw within the clamp, the bolt 15 is removed by detaching the nuts 17 and 14, and said bolt is then inserted through the opening in the center of the saw and replaced within the nuts 14 and 17. Bolt 15 is then adjusted within the slots in the standard 3 and arm 10 until the teeth of the saw are brought adjacent, but above, the heads of the clamp. The bolt is then locked in this position by clamping the standard 3 between the nuts 14 and 17.

Where the device is used with a circular saw, a head 23, such as shown in Fig. 4, is employed. With this form of head a curved clamping edge is provided. When it is desired to release the saw so as to permit the

same to be partly rotated, handle 22 is swung upward, and after the saw has been adjusted to its new position it can be again clamped by pressing handle 22 downward.

If it is desired to use the clamp upon a band-saw, angular brackets 24 are secured to the ends of one of the heads 7 by means of set-screws 25, which are inserted in apertures 26, formed adjacent the ends of the head. It will be seen that the heads are readily detachable, and as the shanks thereof are curved they become firmly seated by gravity within the sockets.

It is apparent that the slots 4 and 10 not only provide for the adjustable mounting of the clamping means, but also provide, by aid of the cross-strips 5 and 11, sockets in the upper ends of the standard 3 and arm 10 for the reception of the shanks 6 of the clamping-heads, and also provide for the application of the spring 12.

In the foregoing description I have shown the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing any of the advantages thereof, and I therefore reserve the right to make such changes as fairly fall within the scope of my invention.

Having thus fully described the invention, what is claimed as new is—

In a device of the character described, a base having a standard formed integral therewith and provided with a longitudinal slot extending throughout its entire length, an arm pivotally secured to said base and provided with a longitudinal slot extending throughout its entire length, cross-strips secured to the upper ends of the standard and arm to provide sockets in their upper free ends, a slide upon the arm, a bolt extending through the slide and slidably mounted within the slots in the standard and arm, a bolt-engaging device slidably mounted within and engaging the walls of the slot and the standard, a clamping device adjustably mounted upon the bolt between the standard and arm, a cam pivoted to the bolt and bearing upon the slide, clamping-heads provided with shanks adapted to be received by the said sockets, and a bow-shaped spring having its extremities mounted within the slots.

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

JOHN LOKEN.

Witnesses:
H. E. HANSON,
W. H. JONES.