



1

2,710,032

SAW HANDLE GUARD

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1 Claim. (Cl. 145—35)

This invention relates to improvements in bone saws of the type used by butchers for severing bones when cutting meat and relates more particularly to a handle guard that protects the wooden handle from injury and deterioration during use.

Saws of the type to which this invention relates are similar in construction to the common metal hacksaw and have elongated U-shaped frames between the free ends of which narrow steel saw blades are positioned. A wood handle is removably attached to one end of the frame, all as will be fully shown and described.

During use the handle frequently hits the bone that is being sawed and since it is always moist from coming in contact with the meat and bones, it very soon becomes full of cracks and frayed until the wood falls away and the surface becomes difficult to clean and maintain in sanitary condition. Handles must therefore be frequently replaced at considerable labor and expense.

It is the object of this invention to produce a guard that can be readily applied to and removed from the frame, so positioned adjacent the front end of the wood handle that it will protect it from injury due to striking the bones, during use and which can be kept in sanitary condition with little effort.

The above and other objects that may become apparent as the description proceeds, are attained by means of a construction and an arrangement of parts that will now be described and reference for this purpose will be had to the accompanying drawing in which the invention has been illustrated in its preferred form and in which:

Figure 1 is a side elevational view of a typical butcher's bone saw showing the handle protective guard in place thereon;

Figure 2 is a fragmentary elevational view to a scale approximately one half full size showing the guard in operative position;

Figure 3 is a view, to an enlarged scale, taken looking in the direction of arrows 3—3 in Figure 2;

Figure 4 is a view, partly in section, looking in the direction of arrows 4—4 of Fig. 2, and Figure 5 is an end elevational view looking in the direction of arrows 5—5 in Figure 4.

Referring now to the drawing, reference numeral 10 designates the steel frame in its entirety. The frame may vary somewhat in its exact shape but is generally of elongated U-shape having sides or ends 11 and 12 connected by a straight base portion 13 which forms the top of the frame. A wood handle 14 of conventional shape, is attached to side 12 of the frame by means of a plurality of screws 15. A narrow saw blade 15 extends between ends 11 and 12 and is secured in place by well known means so that it can be readily removed and replaced. Since this invention does not concern itself in any way with the manner in which the blade is attached to the frame it will not be further described.

The handle guard that forms the subject of this inven-

2

tion has been designated by reference numeral 16 and consists of a steel bar of substantially the length and width shown in Figure 3, which is approximately full size.

The handle guard is curved so as to conform quite closely to the shape of the front end of the handle in the manner shown in Figures 1 and 2 and has a straight section 17 that is provided with a rectangular opening 18 through which the top 13 of the frame extends. The other end has a straight section 19 that has an inwardly extending notch 20 of the proper size to receive the end 12 of the frame. The part between sections 17 and 19 is curved to conform more or less closely to the front end of the handle, as shown. Section 19 is provided with a latch member 21 that is connected with section 19 by a rivet 22 about which it pivots and is so positioned that when it is in the full line position, shown in Figures 4 and 5, it fits quite snugly against the edge of end 12, as shown in Figures 4 and 5. Any suitable means may be provided for holding member 21 in the position shown in Figure 4 and the means shown for this purpose consists of a thumb screw 23 that extends through a hole in section 19 and is threadedly engaged in a tapped hole in member 21. When the guard is to be removed the thumb screw is removed and member 21 moved to the broken line position shown in Figure 4 whereupon the guard can be moved towards the left and when the blade is removed the guard can be entirely removed. The guard is put into position by first removing the saw blade and then inserting frame end 11 into opening 18, then moving the guard to the position shown. Since the handle can be removed and replaced without moving the guard there is no need of disturbing it after it has once been put into position.

In order to prevent the guard from moving slightly when the saw is in use it has been provided with a threaded opening in which a screw 24 is operatively positioned. Screw 24 has been shown as an ordinary machine but any other type may be used. Screw 24 is so positioned that it engages the end 12.

It will be evident that the guard which is positioned as shown, will protect the wood handle from injury by striking the bone that is being sawed.

The parts can be readily cleaned by a steam jet and thus kept in sanitary condition at all times. If the handle must be removed and replaced it can be done without disturbing the guard which can therefore be permanently attached to the frame, as by welding, if desired.

What is claimed as new is:

A handle guard for butchers' bone saws of the type having an elongated U-shaped steel frame, a saw blade connecting the ends of the frame, and a wood handle having a hand-hole located entirely outside of the frame and connected to one of the frame ends, said guard comprising a unitary metal strap of a width at least as great as the thickness of the handle and having a portion shaped to conform to the inside of the frame end and the corresponding portion of the handle, the upper end of the guard terminating in a straight portion that has an opening for the reception of the top portion of the frame adjacent the handle, the lower end of the guard terminating in an outwardly extending straight part provided with an opening for the reception of that portion of the end of the frame between the wood handle and the saw blade, and a latch means closing the open end of the last named opening to prevent accidental withdrawal of the guard from the handle.

References Cited in the file of this patent

UNITED STATES PATENTS

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