

UNITED STATES PATENT OFFICE.

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SAW.

SPECIFICATION forming part of Letters Patent No. 315,373, dated April 7, 1885.

Application filed February 9, 1885. (No model.)

To all whom it may concern:

Be it known that I, EMANUEL ANDREWS, of Williamsport, in the county of Lycoming and State of Pennsylvania, have invented a new and useful Improvement in Saws; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention relates to improvements in meat and metal saws, and has in view the same objects set forth in an application of mine of even date herewith upon saws of the same character. These improvements, however, are confined more particularly to the devices for applying and setting the saw-blade in its frame; and the novelty consists in the construction and combined arrangement of such, together with the adaptation of the saw-blade, all as more fully hereinafter described and claimed.

For a more perfect understanding of these improvements and the manner in which they are combined with the frame and handle, reference should be had to the accompanying drawings, in which—

Figure 1 is a side view of the saw with a blade set and secured by devices constructed in accordance with my invention, and Fig. 2 a detail view of the saw-blade and the devices for attaching and setting it in the frame.

A denotes the handle; A', a handle-casting with end sockets, a' and a'' ; and B, the back or frame, with end bolt or pin, d , all of a construction and arrangement similar to the corresponding parts described in the application above referred to.

C denotes the saw-blade, which is provided near each end with an oblong slot, e , punched or cut lengthwise of the blade.

For attaching a saw-blade of this construction there is employed a shank, D, to be inserted in the lower socket, a'' , of the handle-casting A', and a loop or tongue, E, to be slipped over the end bolt, d , of the back or frame B. This tongue E consists preferably of a casting formed into a loop, f , with a flat extension, f' , which is provided at or near its center with a set-screw or rivet, f'' , having an oblong head to correspond with the slots e

of the saw-blade. The shank D, which is to be inserted in the socket a'' of the frame or handle-casting A' of the saw-handle, has a flattened end or head, g , which is provided at or near its center with a set-screw or rivet, g' , having a head corresponding in shape to that of the screw or rivet on the loop or tongue E. The other end of this shank D, which protrudes through the socket a'' on the other side, is round, and is screw-threaded on its exterior to receive a thumb or other tightening nut, D', and should otherwise be square or of some shape to secure itself against lateral movement in its bearing in the socket, as referred to in connection with the shank described in the application hereinbefore mentioned.

In applying and attaching the saw-blade to the frame of the saw, the loop or tongue E is first slipped over the end bolt or pin, d , of the back or frame B. The blade is then attached to the loop or tongue by slipping one end over the set-screw or rivet f'' , through the slot e , then turning the blade at a right angle, so as to bring the slot at right angles to said screw or rivet, in which position it can slip over the latter. The shank D is then attached to the other end of the blade in a similar manner, and is then passed through the socket a'' of the frame or handle-casting A', and by applying the thumb or other tightening nut D and turning the same the blade may be straightened and tightened as desired. The mode of applying the saw-blade to its frame may be changed by first attaching the blade to the shank and then attaching the loop or tongue; but this will be a matter of judgment and option of the operator. A modification of the saw-blade is included in Fig. 2, where a trifoliate slot is represented at one end, which will permit of the blade being applied without turning it at an angle to the fastening device.

It will be manifest that without the exercise of invention the several devices for attaching the blade can be slightly changed with respect to shape—for instance, the slots in the blade could be round or of some other shape, and accordingly the screws or rivets on the loop or tongue E and shank D would need corresponding changes in the shape and size of their heads.

It will also be manifest that these devices may be used with any other style of frame and handle suitably adapted to accommodate them.

What I claim, and desire to secure by Letters Patent, is—

1. In a saw of the character described, the combination of the saw-blade C, having a closed slot near each end, the shank D, the loop or tongue E, and screws or rivets for attaching the blade to said parts, substantially as described.

2. In a saw of the character described, the combination of the saw-blade C, provided with an oblong slot, *e*, near each end, the flat-headed shank D, having a thumb-nut, D', and screw or rivet *g*, the tongue or loop E, having the

extension *f'*, and screw or rivet *f*², and the frame and handle of the saw, substantially as described.

3. A saw-blade for meat and metal saws, having an oblong closed slot near each end adapted for detachably connecting said saw at one end to the frame, and at the other end to a straining device connected with the other end of the frame, substantially as described.

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

EMANUEL ANDREWS.

Witnesses:

W. T. ANDREWS,
J. W. A. YOUNG.