No. 739,457. PATENTED SEPT. 22, 1903.

W. E. TILDEN.

SAW.

APPLICATION FILED MAY 6, 1902.

NO MODEL.

Fig. 1.

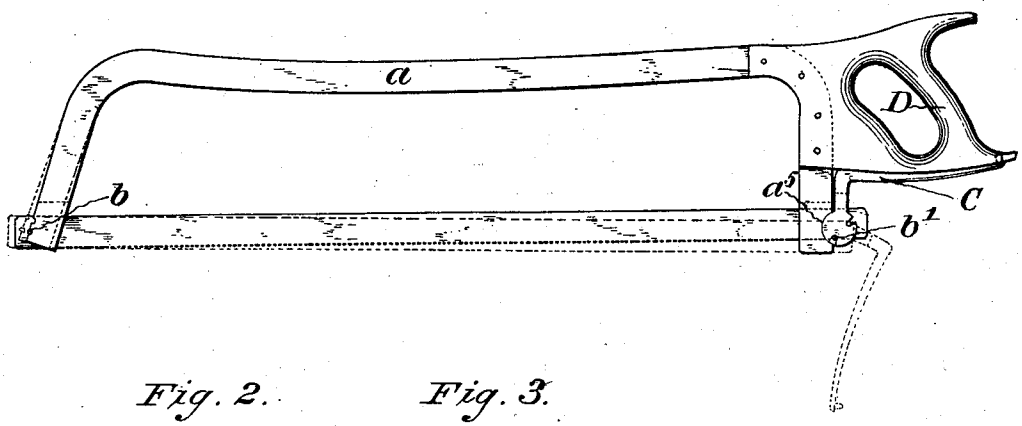


Fig. 2.

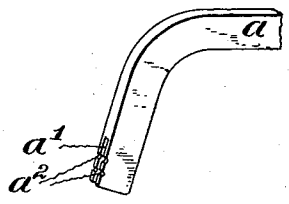


Fig. 3.

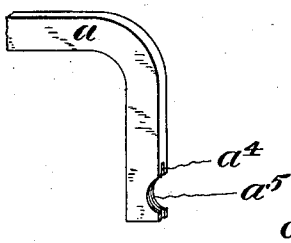
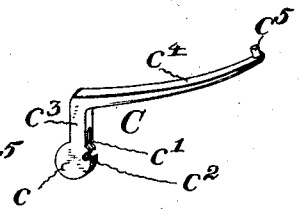


Fig. 4.



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No. 739,457. Patented September 22, 1903.

UNITED STATES PATENT OFFICE.

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SAW.

SPECIFICATION forming part of Letters Patent No. 739,457, dated September 22, 1903.

Application filed May 6, 1902. Serial No. 106,192. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. TILDEN, a citizen of the United States, and a resident of Cleveland, county of Cuyahoga, and State of Ohio, have invented a new and useful Improvement in Saws, of which the following is a specification, the principle of the invention being herein explained and the best mode in which I have contemplated applying that principle, so as to distinguish it from other inventions.

My invention relates to saws, and particularly to butchers' saws, its object being to provide such saws with means whereby a removable blade may be quickly and easily removed and replaced in an efficacious manner.

Said invention consists of means hereinafter fully described, and particularly set forth in the claims.

The annexed drawings and the following description set forth in detail certain mechanism embodying the invention, such disclosed means constituting but one of various mechanical forms in which the principle of the invention may be used.

Figure 1 represents a side elevational view of a butcher's saw embodying my invention. Fig. 2 represents a perspective view of the outer end of the saw-frame, and Fig. 3 a perspective view of the inner end of such frame, to which latter the saw-handle is secured. Fig. 4 represents a perspective view of a lever which forms a part of my invention.

The outer frame end a is provided with a slot a', adapted to receive the end of the saw-blade, and several notches a^2 for receiving a transverse pin b, secured in the outer blade end, as will be understood. The rear frame end is similarly provided with a slot a^4 and is formed in its rear side with a portion of cylindrical bearing-surface a^5 intersecting said slot a^4. A lever C is formed with a cylindrical bearing portion c, which is provided with a slot c' and is adapted to seat and turn upon bearing-surface, the two slots a^4 and c' registering with each other in such position of said lever. The inner end of the saw-blade extends through said slots and is provided with a transverse pin b'. The cylindrical bearing portion of said lever is further provided with a transverse slot c^2, intersecting its cylindrical surface and terminating intermediately of the cylinder-axis and said surface. Said slot c^2 is adapted to receive and secure the pin b' eccentrically relatively to the fulcrum-axis of the lever—that is, the cylinder-axis. Said lever is formed with two arms c^3 and c^4, angularly located relatively to each other, arm c^4 being elongated and provided with a stud c^5, adapted to project into a hole formed in the under side of the inner end of the handle D. The angularity of said two arms is made substantially equal to that between said under side of the handle and the contiguous frame portion.

When it is desired to insert a blade into the saw, lever C is turned down, as shown in dotted lines in Fig. 1, which action brings slot c^2 upon the under side of the lever and near the frame. The blade is now inserted in slots a' c' and a^4, pins b and b' being caused to engage a notch a^2 and slot c^2, respectively. The lever is now turned upwardly into the position shown in full lines, Fig. 1, thereby drawing the blade into place, springing the frame and so securing the blade tightly in its proper position. The lever as a result of its described angular form fits the frame, lateral displacement of arm c^4 being prevented by stud c^5.

Other modes of applying the principle of my invention may be employed instead of the one explained, change being made as regards the mechanism herein disclosed, provided the means stated by any one of the following claims or the equivalent of such stated means be employed.

I therefore particularly point out and distinctly claim as my invention—

1. A saw comprising the combination of a frame and handle therefor, a blade removably seated in said frame, and a lever located beneath the saw-handle, such lever being fulcrumed upon said handle, eccentrically en-

gaging said blade, and formed with an angular arm adapted to lie longitudinally along the bottom surface of the said handle.

2. The saw, as described, comprising the combination of the handle and frame, the removable blade, and the lever C located below the handle formed with the angular arm c^4 adapted to lie along the bottom surface of said handle, fulcrumed upon the said frame and adapted to secure the saw-blade.

Signed by me this 5th day of May, 1902.

WILLIAM E. TILDEN.

Attest:
D. T. DAVIES,
A. E. MERKEL.