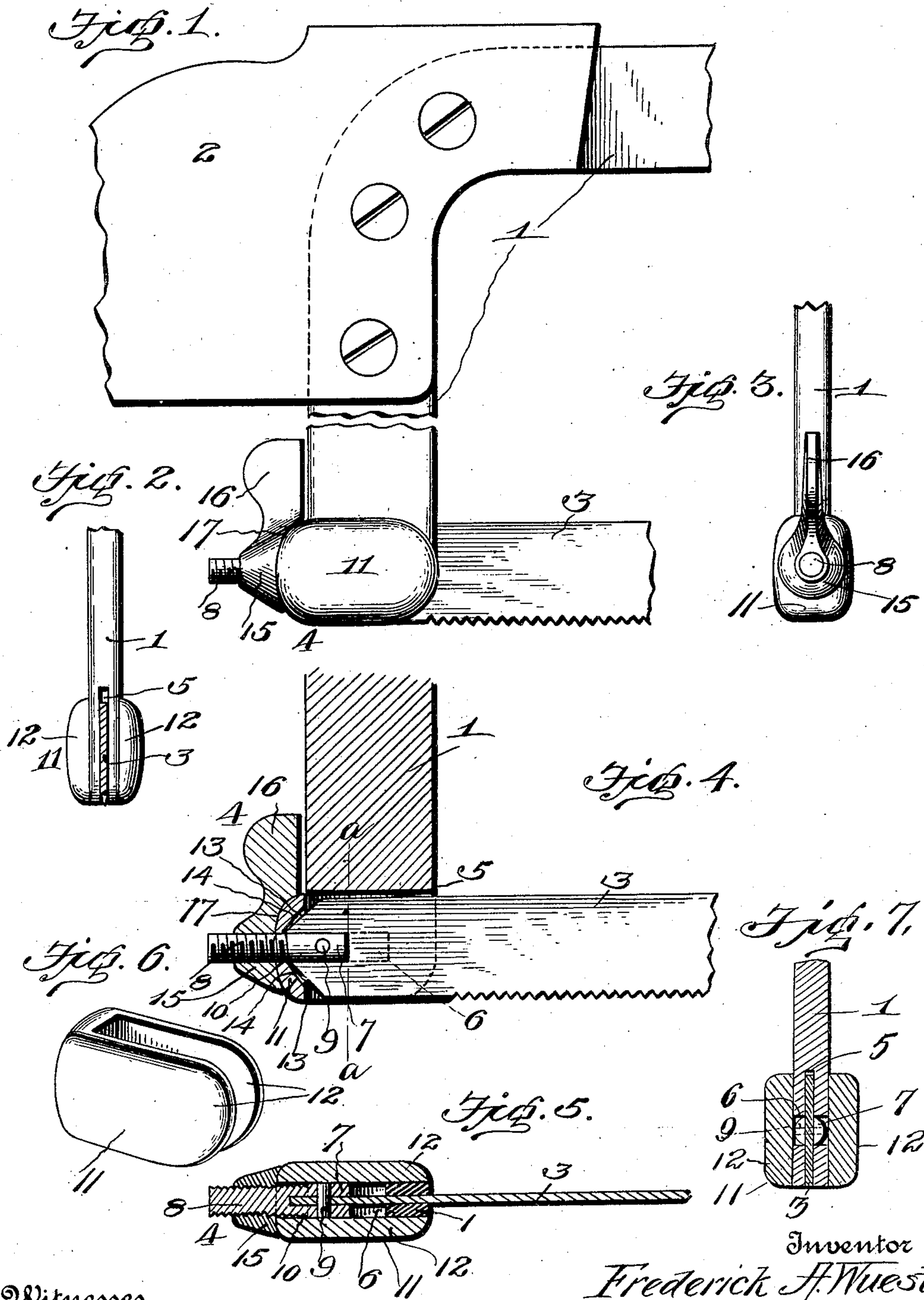


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UNITED STATES PATENT OFFICE.

FREDERICK A. WUEST, OF LAWRENCEBURG, INDIANA.

SAW.

SPECIFICATION forming part of Letters Patent No. 790,947, dated May 30, 1905.

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To all whom it may concern:

Be it known that I, FREDERICK A. WUEST, a citizen of the United States, residing at Lawrenceburg, in the county of Dearborn and State of Indiana, have invented certain new and useful Improvements in Saws; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in saws, and more particularly butchers' saws.

The object of my invention is to provide a simple, durable, and efficient connection for the rear end or heel of the blade of a butcher's saw, which may be easily manipulated to vary the tension of the saw-blade and which will be of a compact construction and have but few recesses, cavities, and corners in which dirt or meat may lodge.

With the above and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be more fully described, and particularly pointed out in the appended claim.

In the accompanying drawings, Figure 1 is a side elevation of a portion of a butcher's saw constructed in accordance with my invention. Fig. 2 is a transverse sectional view through the blade looking toward the heel. Fig. 3 is an end elevation. Fig. 4 is a vertical longitudinal sectional view. Fig. 5 is a horizontal sectional view, and Fig. 6 is a perspective view of the clip or clasp. Fig. 7 is a transverse sectional view taken on the plane indicated by the line *a a* of Fig. 4.

Referring to the drawings by numerals, 1 denotes the rear end of the usual U-shaped frame of a butcher's saw, upon which is secured the usual handle 2.

3 denotes a saw-blade, and 4 denotes my improved detachable and adjustable connection for securing the blade 3 to the frame 1.

The frame 1 has its end formed with a longitudinal slot 5, adapted to receive the saw-blade, and with a transversely-extending recess or slot 6, which intersects the slot 5, as clearly shown in Figs. 4 and 5 of the drawings. The recess 6 is adapted to receive the

bifurcated inner end 7 of an adjusting-screw 8, which extends longitudinally and rearwardly in line with the center of the saw-blade, which has its end pivotally mounted in said slotted portion 7 of the screw by means of a rivet or pivot-pin 9. The screw 8 extends through an opening 10, formed in a clip or clasp 11, which is substantially U-shaped in form and has its two arms or wings 12 adapted to engage the opposite faces of the lower end of the frame 1 and cover the recess 6, formed therein, and the screw 8. This clip 11 fits the frame 1 snugly and has its edges beveled or rounded, as clearly shown in Fig. 6 of the drawings. It will be seen that by providing this clip and constructing it as shown there will be few places in which dirt, meat, blood, or the like may lodge, and hence the connection may be readily cleaned. The end of the saw-blade 3 has its corners cut away, as shown at 13, and the end of the clip 11 in which the opening 10 is formed has its inner face correspondingly cut away, as at 14. Upon the extreme outer end of the screw 8 is an adjusting-nut 15, which is formed with a single wing or finger-piece 16, by means of which it may be readily rotated. This nut 15 is substantially conical in form, its edges being rounded, as shown, and the wing 16 has a curved portion 17, which permits it to clear the rear end of the clip 11 and at the same time lie close to the frame 1 when the parts are in their adjusted position, as shown in Fig. 3 of the drawings. When the parts are in this position, it will be seen that said wing aligns or registers with the saw-frame and lies close to the same.

The construction, operation, and advantages of my invention will be readily understood from the foregoing description, taken in connection with the accompanying drawings. It will be seen that the parts may be readily detached for the purpose of cleaning and that they may be readily adjusted to vary the tension or strain upon the saw-blade.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

5 The combination with a saw-blade and a saw-frame formed with a slot to receive the saw-blade and with a recess intersecting said slot, of a screw connected to said saw-blade and seated in said recess, a clip on said screw hav-
10 ing longitudinal arms bearing on opposite sides of said frame and covering said recess

and that portion of the screw therein, and a nut on the end of said screw engaging said clip.

In testimony whereof I have hereunto set my hand in presence of two subscribing wit- 15
nesses.

FREDERICK A. WUEST.

Witnesses:

CHARLES O'HARA,
JOHN B. GARNIER.