

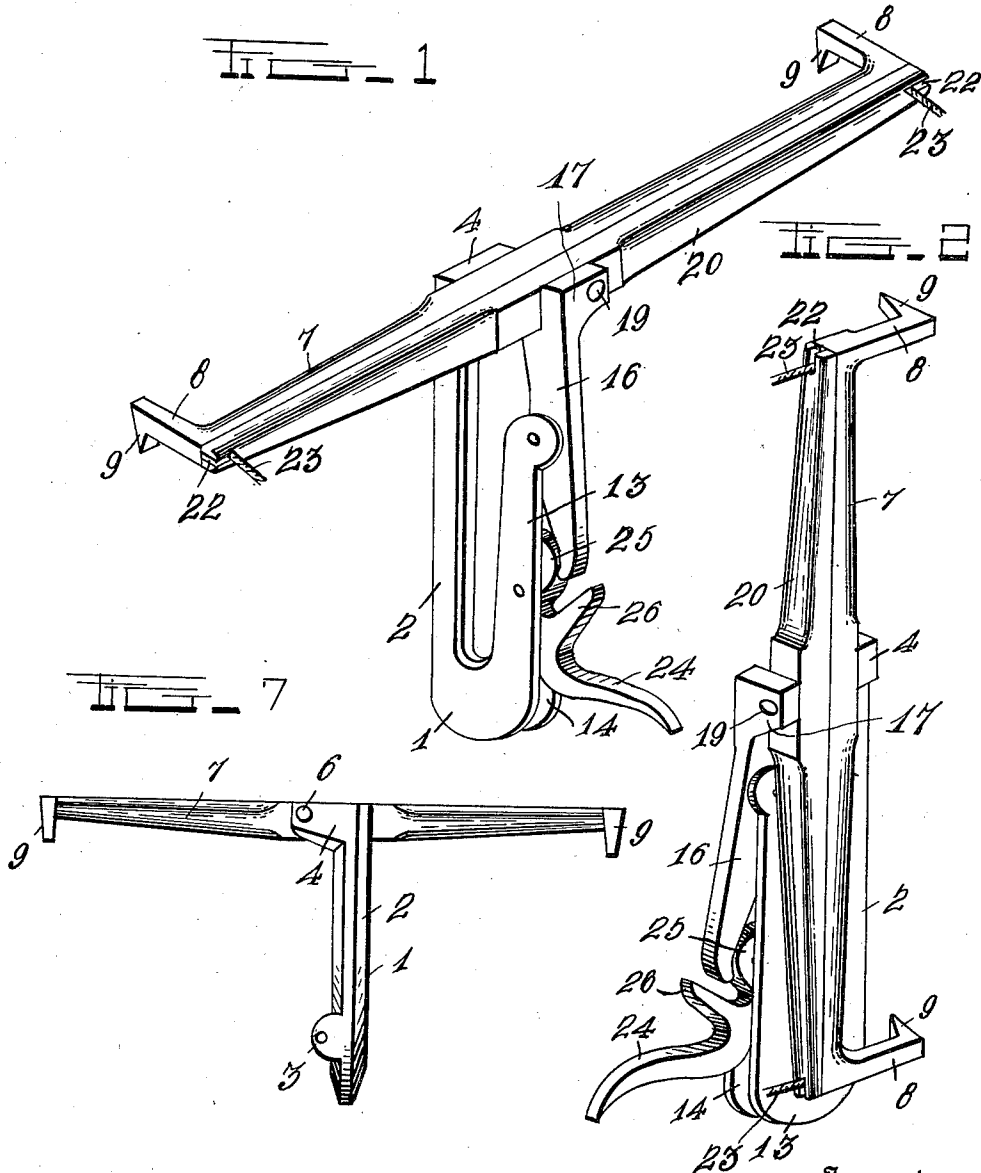
A. T. BINKERD, DEC'D.
E. G. BINKERD, EXECUTRIX.
SAW CLAMP.

1,009,016.

APPLICATION FILED FEB. 17, 1910.

Patented Nov. 14, 1911.

2 SHEETS-SHEET 1.



Witnesses.

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C. H. Gruber.

Inventor
A. T. Binkerd (dec'd),
by E. G. Binkerd (exec)
by *A. B. Wilson & Co.*
Attorneys

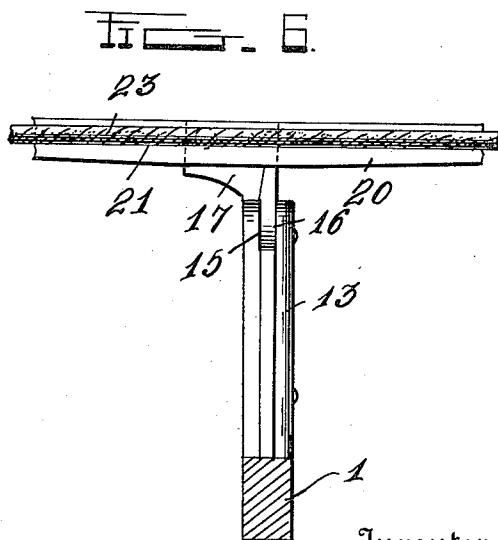
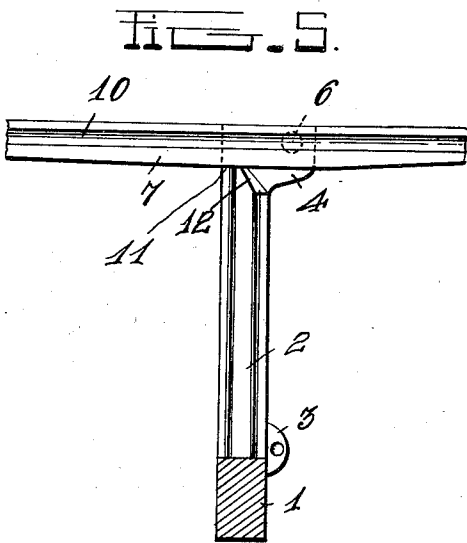
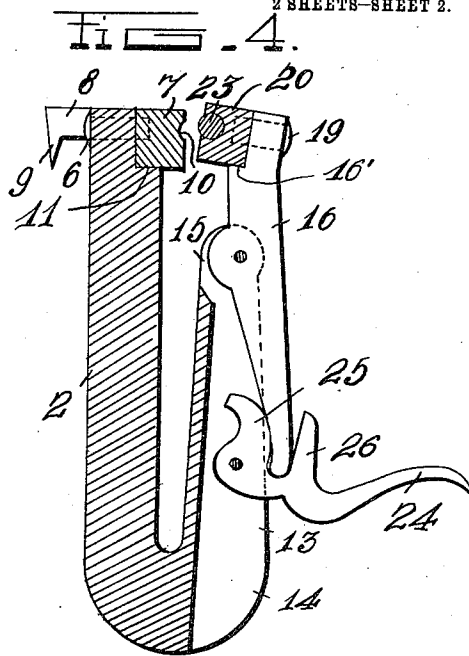
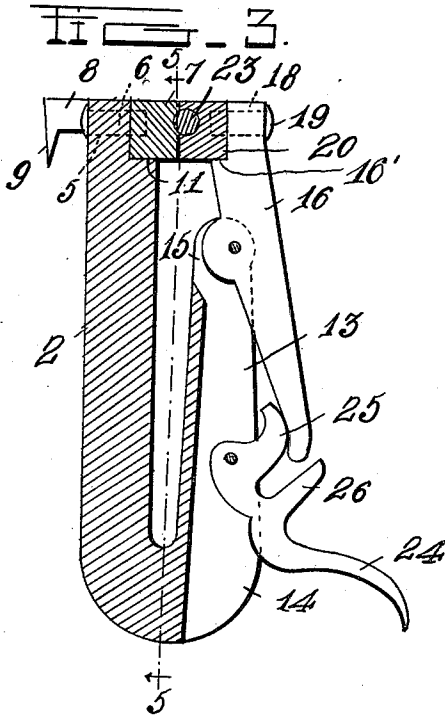
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2 SHEETS-SHEET 2.



Witnesses

A. P. Hardy
C. H. Griesbauer

Inventor
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UNITED STATES PATENT OFFICE.

AARON T. BINKERD, DECEASED, LATE OF ALLEGHENY, PENNSYLVANIA; ELLA GERTRUDE BINKERD, EXECUTRIX, ASSIGNOR TO ELLA G. BINKERD.

SAW-CLAMP.

1,009,016.

Specification of Letters Patent. Patented Nov. 14, 1911.

Application filed February 17, 1910. Serial No. 544,490.

To all whom it may concern:

Be it known that I, ELLA GERTRUDE BINKERD, a citizen of the United States of America, and a resident of Pittsburgh, in the county of Allegheny and State of Pennsylvania, am the executrix of the estate of AARON T. BINKERD, late a citizen of Allegheny, in the county of Allegheny and State of Pennsylvania, and that the said AARON T. BINKERD did invent a certain new and useful Improvement in Saw-Clamps; 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.

This invention relates to improvements in saw clamps.

The invention consist in the construction and arrangement of parts, as will be hereinafter described and particularly pointed out in the claim.

In the accompanying drawings, Figure 1 is a perspective view of the clamp arranged for use. Fig. 2 is a similar view showing the clamp in folded position; Fig. 3 is a central vertical transverse sectional view showing the parts in clamping position; Fig. 4 is a similar view showing the parts in released position; Fig. 5 is a vertical section on the line 5-5 of Fig. 3; Fig. 6 is a similar view looking in the opposite direction; Fig. 7 is a rear view of the clamp.

Referring more particularly to the drawings, 1 denotes a substantially U-shaped supporting frame on the rear member 2 of which is formed an apertured ear 3 adapted to receive a fastening screw whereby the frame may be attached to a bench or other support. On the upper end of the rear member 2 of the frame is formed a laterally projecting right angular lug 4 in which is formed a bearing aperture 5.

Within the bearing aperture 5 is pivotally engaged a bearing stud 6 formed on the rear side of the main or stationary jaw 7 of the clamp. On the opposite ends of the jaw 7 are rearwardly projecting arms 8 on which are formed downwardly projecting spurs 9, adapted to be driven into the bench or other support to aid in rigidly holding the clamp in position. On the inner side of the jaw 7 is formed a longitudinally disposed groove or channel 10, the purpose of which will hereinafter appear. On the upper end of

the rear member 2 of the supporting frame at the inner side of the lug 4 is formed a horizontally disposed stop shoulder 11 with which the stationary jaw 7 is engaged when in an operative position, and an inclined stop shoulder 12 with which said jaw is engaged when in a folded position.

The front or outer member 13 of the frame has formed in its outer edge a vertically disposed groove or channel 14 and on its upper end is provided with parallel apertured bearing lugs 15, between which is pivotally mounted a movable or clamping jaw supporting arm 16, on the upper end of which is formed a stop shoulder 16' a right angular laterally projecting bearing lug 17, in which is formed a bearing aperture 18. In the bearing aperture 18 is pivotally mounted the bearing and supporting stud 19 of the movable or clamping jaw 20 of the device. The jaw 20 corresponds substantially to the shape of the stationary jaw 7 and is adapted to be moved by the arm 16 into engagement with said stationary jaw whereby the saw blade is clamped into engagement therewith or between said jaws.

On the inner side of the clamping jaw 20 is formed a longitudinally disposed groove 21 and in the opposite ends of the jaw are formed notches 22. Adapted to be engaged with the groove 21 and notches 22 is a sound deadening element which is here shown and preferably consists of a piece of woven rope 23, which is stretched along in the groove 21 and has its ends drawn into tight engagement with the notches 22 in the ends of the jaw, thereby holding the rope in place. The size or diameter of the sound deadening rope is greater than that of the groove 21, so that a portion of the rope projects beyond the inner side of the jaw 20 and bears against the saw blade when the latter is clamped between the jaws. When the jaws are brought together with no saw blade between them, the projecting portion of the rope engages or lies in the groove 10 in the stationary jaw 7.

Pivotally mounted in the lower portion of the groove or channel 14 of the member 13 of the frame is a jaw operating lever 26, said lever having formed on its upper end a laterally projecting cam lug 25, which is adapted to bear against the curved inner side of the lower end of the jaw operating arm 16, whereby when the lever is swung

downwardly, said cam lug will force the lower end of the arm 16 outwardly and the upper end inwardly, thus clamping the jaw 20 against the saw. On the lever 26 below the cam lug 25 is formed a jaw releasing finger 24, which, when the lever 26 is swung upwardly, is brought into engagement with the outer side of the arm 16, thus rocking or swinging the lower end of the arm inwardly and the upper end outwardly, thus retracting the jaw 20 and releasing the saw.

When in an inoperative position and removed from the bench or support, the jaws 7 and 20 may be swung downwardly on their pivot studs and folded against the supporting frame 1, thus reducing the size of the clamp or folding the same into compact form.

From the foregoing description taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Having thus described the invention, what is claimed is:

A saw clamp comprising a body with a front and rear arm, the front arm being provided with a grooved outer face, a clamp-

ing jaw secured to the upper end of the rear arm, a jaw carrying arm pivoted to the upper end of the front arm of the body within the groove therein, a clamping jaw secured to the upper end of the jaw carrying arm, a lever pivoted within the groove of the front arm of the body to move to and from the same, said lever being provided on its front edge at its upper end with an outwardly projecting cam lug bearing against the rear side of the jaw carrying arm at the lower end of the same, and an outwardly projecting jaw releasing finger on said lever and below said lug whereby when the lever is swung upwardly said jaw releasing finger is brought into engagement with the outer side of the jaw operating arm, thus rocking the lower end of the arm inwardly and its upper end outwardly so as to retract the clamping jaw thereby releasing the saw.

In testimony whereof, I have hereunto set my hand in the presence of two subscribing witnesses.

ELLA GERTRUDE BINKERD,
Executrix.

Witnesses:

ROBT. D. TOTTEN,
ROBERT C. TOTTEN.