

J. SIGOLOFF.

SAW.

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962,535.

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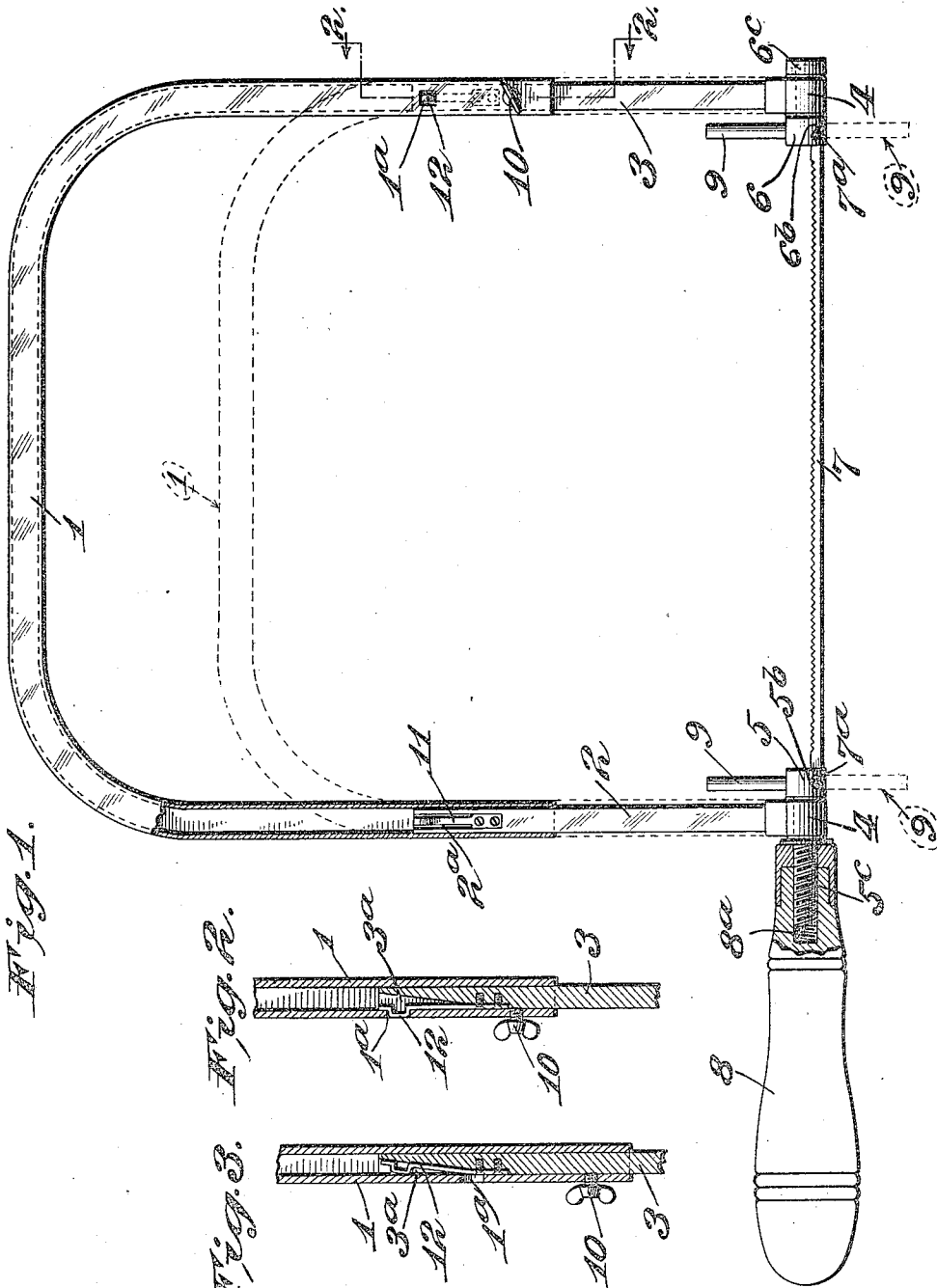


Fig. 1.

Fig. 2.

Fig. 3.

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UNITED STATES PATENT OFFICE.

JACOB SIGOLOFF, OF ST. LOUIS, MISSOURI.

SAW.

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To all whom it may concern:

Be it known that I, JACOB SIGOLOFF, a citizen of the United States, residing at the city of St. Louis, State of Missouri, have invented a certain new and useful Improvement in Saws, of which the following is a specification, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an elevational view, partly in section, of my improved saw; Fig. 2 is an enlarged fragmentary sectional view on line 2—2, Fig. 1; and Fig. 3 is a similar view showing the parts further telescoped.

This invention relates to saws and more particularly to scroll or other like saws.

The object of the invention is to provide a scroll or other like saw, with a frame which is readily adjustable laterally with relation to the saw blade, to fit boards of varying sizes, and which may be adjusted while sawing a figure from a board without necessitating the removal of the saw blade from the cut.

With this object in view, my invention consists in the novel construction, arrangement, and combination of the several parts, all as will hereinafter be described and pointed out in the claim.

In the drawings, 1 indicates a hollow or tubular, preferably U-shaped yoke forming the adjustable member of the saw frame and which is adapted to fit and slide upon the shanks 2 and 3. The shanks 2 and 3 are each formed with a perforated boss or enlargement 4 at their lower ends, through which are adapted to pass the saw-bits or holders 5 and 6. Said saw-bits or holders 5 and 6 are each formed with a circular head, which are each provided with a cut or slit for receiving the saw-blade 7 and also with inclined or angular slots 5^b and 6^b, respectively, for receiving the pins 7^a passing through each end of said saw-blade 7. The saw-bit or holder 6, after passing loosely through the boss 4 of shank 3, is provided with a head or nut 6^c, while the saw-bit or holder 5 is provided with a screw-threaded shank 5^c, which, after passing loosely through the boss 4 of shank 2, is threaded into a threaded opening 8^a in the handle 8. By this construction, when the handle 8 is screwed down to the position shown in Fig. 1, and a blade is to be inserted there is a certain amount of

amount of tension placed on the saw-blade 7, the saw-blade is firmly held in position; when the handle 8 is unscrewed, the compression on said yoke and the tension of said blade are released and the saw-blade may be easily removed and a new blade inserted whenever necessary. The saw-bits or holders 5 and 6 are also each provided with a pin or handle 9, whereby the saw-bits or holders 5 and 6 may be turned, so that the cutting-edge of the saw-blade may be presented toward the inside or outside of said yoke 1, as desired.

The yoke 1 may be easily adjusted inwardly or outwardly, that is to say, laterally with relation to the saw-blade, on the shanks 2 and 3, whenever occasion requires, and, by the screwing-up of the handle 8, the compression placed on the yoke 1 will be sufficient to hold said yoke in any adjusted position on the shanks 2 and 3; and I also provide the set-screws 10 as additional means for holding said yoke in adjusted positions. The shanks 2 and 3 are preferably provided with recesses or grooves 2^a and 3^a at their upper ends, in which are adapted to be secured the springs 11 and 12, respectively. Near its lower ends, the yoke 1 is provided with slots or openings 1^a into which the springs 11 and 12 will project when the yoke 1 is brought to its outermost position, so as to indicate to the operator the last or outermost adjustment of the yoke 1. When the yoke 1 is in its inner positions, the springs 11 and 12 will be forced into the grooves or recesses 2^a and 3^a, but will always be in frictional engagement with the inner walls of the tubular yoke, so that the yoke may be easily moved on said shanks 2 and 3; the said springs also serving to hold the yoke in its adjusted positions but whenever said yoke 1 is brought to its outermost position, in which the raised portions of said springs 11 and 12 correspond or cooperate with slots 1^a, said raised portions of said springs 11 and 12 will automatically project into said slots 1^a and prevent further outward movement of said yoke and thereby avoid the accidental disconnection of the yoke from the shanks.

While I have herein particularly described my invention with relation to a scroll saw, yet it is to be understood that my invention is equally applicable to many other kinds of saws, and it is easily seen that

the construction of my saw is simple, easily made and fully accomplishes the objects which I have heretofore set forth.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

A saw frame, comprising two shanks having recesses in their upper ends, saw-bits mounted in the lower ends of said shanks, spring-stops secured to the upper ends of said shanks and overlying the recesses therein, a hollow yoke having its stems fitted upon said shanks by depressing said spring-stops into the recesses in the shanks, each of the stems of the said yoke being provided with a single opening near its end adapted to be engaged by the spring-stop of its respective shank when adjacent thereto and to be disengaged from said spring-stops by depressing said stops into their respective recesses

to permit the yoke to be slid upon said shanks, whereby the yoke may be readily adjusted upon said shanks to any point between the openings in its stems and its limit of inward movement and automatically locked against removal from the shanks when it reaches its limit of outward movement, independent means for securing the shanks and yoke at intermediate adjusted positions, and a handle secured to one of said saw-bits for adjusting the tension of said yoke.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

JACOB SIGOLOFF.

Witnesses:

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