

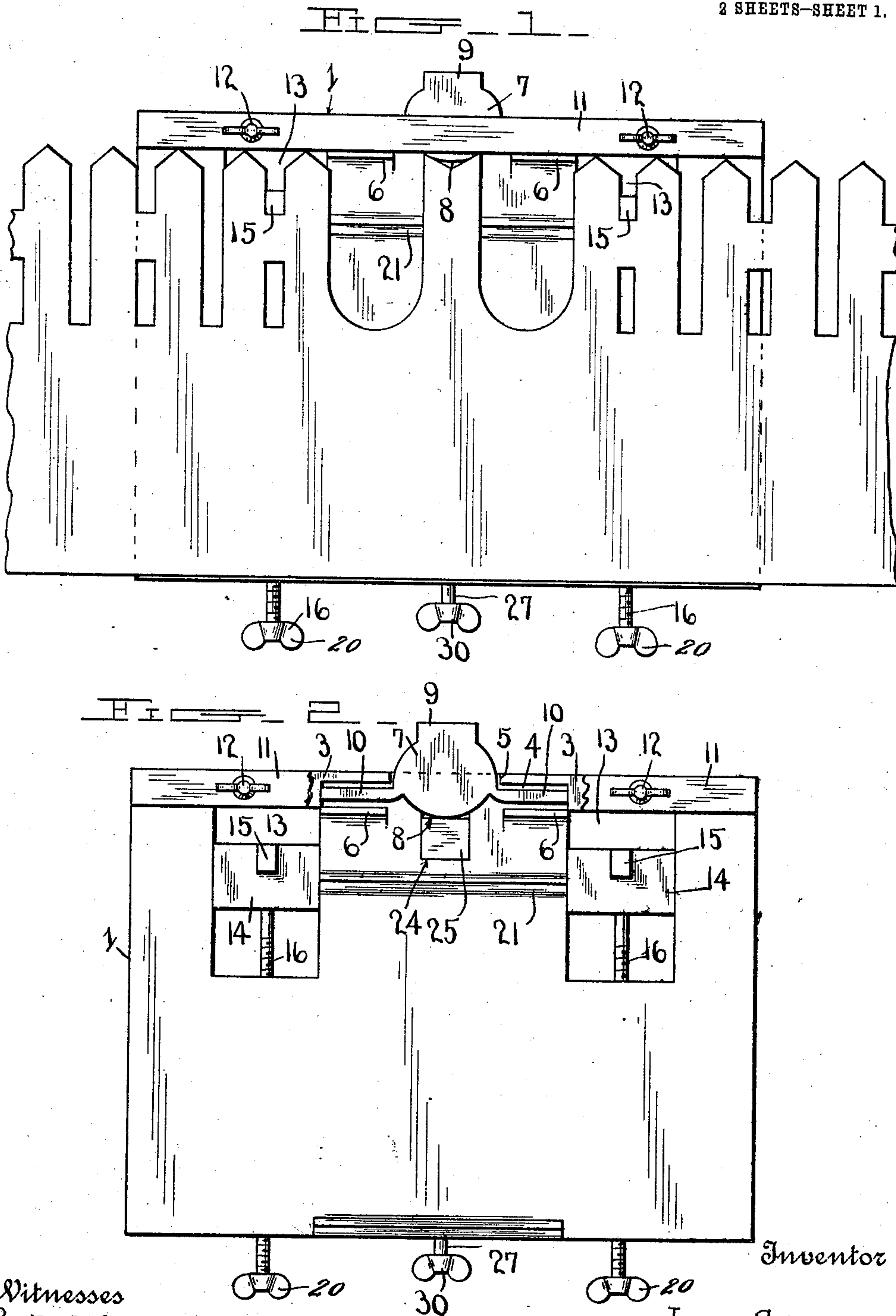
L. GREER.  
SAW SWAGE.

APPLICATION FILED OCT. 17, 1910.

996,757.

Patented July 4, 1911.

2 SHEETS—SHEET 1.



Witnesses

L. B. James  
O. B. Hopkins

by

A. B. Wilson & Co.  
Attorneys

Inventor

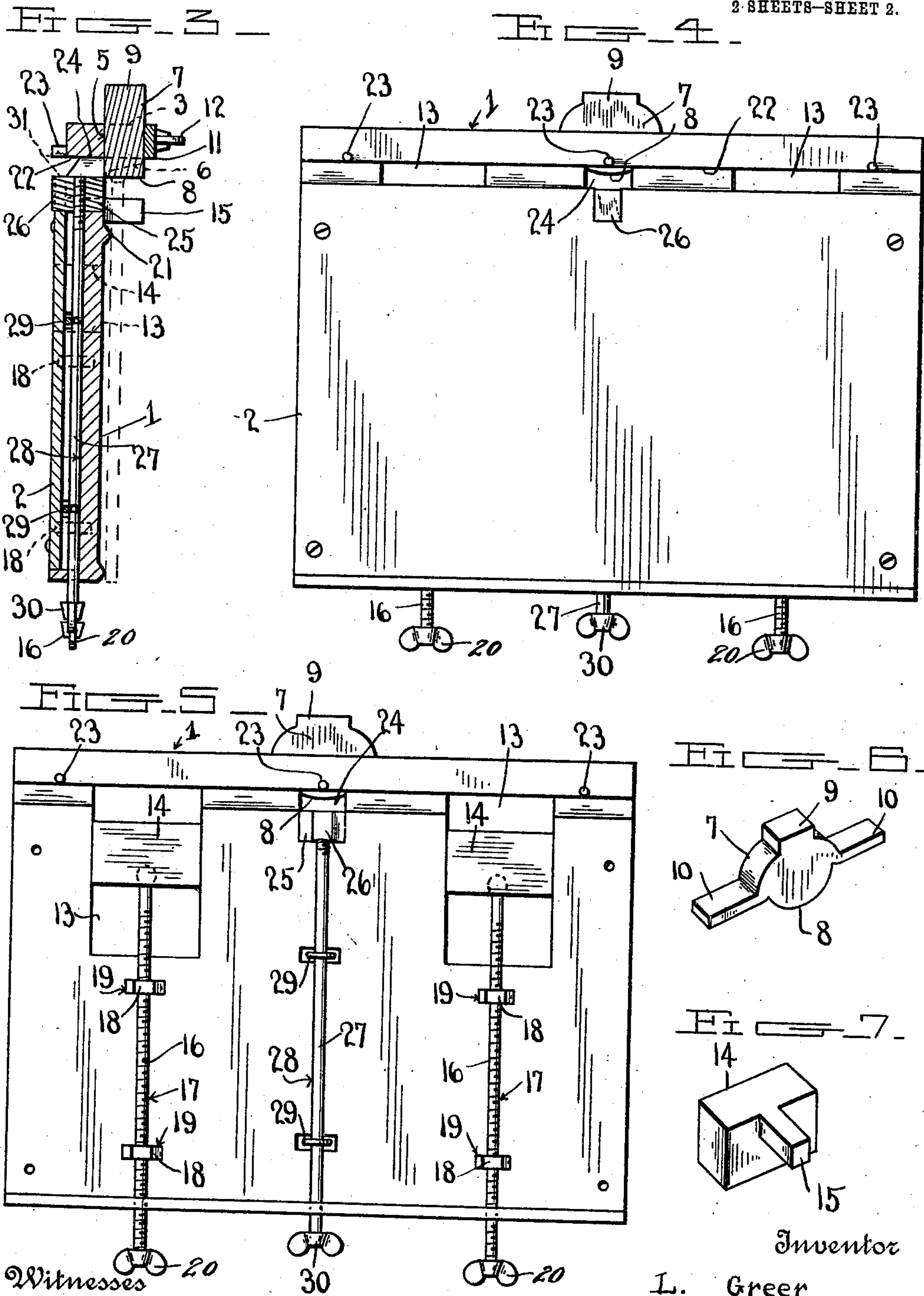
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# UNITED STATES PATENT OFFICE.

LEN GREER, OF FULLERTON, LOUISIANA.

SAW-SWAGE.

996,757.

Specification of Letters Patent.

Patented July 4, 1911.

Application filed October 17, 1910. Serial No. 587,474.

*To all whom it may concern:*

Be it known that I, LEN GREER, a citizen of the United States, residing at Fullerton, in the parish of Vernon and State of Louisiana, have invented certain new and useful Improvements in Saw-Swages; 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 combined saw swage, set and jointer.

One object of the invention is to provide a device of this character having an improved construction and arrangement of swage, whereby the drag teeth may be quickly and easily swaged and having means whereby the swaging die is detachably held in place and guided in its operating movement.

Another object is to provide an improved means for holding a saw in place on the swage, means whereby the cutting teeth may be set and means for holding the file for the purpose of jointing the teeth.

With these 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 claims.

In the accompanying drawings: Figure 1 is side view of a combined swage, set and jointer constructed in accordance with my invention showing a portion of a saw engaged therewith and in position to be swaged. Fig. 2 is a similar view of the device with the saw removed and parts of the device broken away. Fig. 3 is a central vertical section of the same. Fig. 4 is a rear view of the device showing the manner in which a file is held in position for jointing the teeth. Fig. 5 is a rear view with the back plate removed. Fig. 6 is a detail perspective view of the swaging die. Fig. 7 is a similar view of one of the tooth engaging blocks for holding the saw while being swaged.

In the embodiment of the invention I provide a flat rectangular block 1 which forms the body portion of the device and which has secured to its rear side a back plate 2. On the front side of the block 1 adjacent its upper edge is formed a laterally projecting

flange 3. In the center of the flange 3 is formed a horizontally disposed recess 4, the central portion of which opens through the flange and forms a vertical passage 5. On the side of the block below the ends of the recess are formed laterally projecting stop lugs 6.

Slidably engaged with the passage 5 is my improved swaging die 7 comprising a head having a rounded lower tooth engaging projection 8 on its lower edge and an upwardly extending striking projection 9 adapted to receive the blows of the hammer by which the die is operated. On the opposite edges of the head are formed laterally projecting wings 10 which are adapted to engage and work in the ends of the recess 4 in the flange 3 and which engage the stop lugs 6 whereby the movement of the die is limited and the teeth thus swaged to the proper degree. The die 7 is held in detachable operative engagement with the recess 4 by a bar 11 which is secured to the flange 3 by screws 12 or other suitable fastenings.

In the block 1 below the flange 3 and on opposite sides of the center of the block are formed vertically disposed guide passages 13 in which are slidably mounted saw holding blocks 14 on which are formed laterally projecting tooth engaging lugs 15 which are adapted to project between the cutting teeth of the saw whereby the latter is held while the swaging die is operating upon the drag teeth. The blocks 14 are adjusted in the passages 13 by means of adjusting screws 16 which are arranged in vertically disposed grooves 17 formed in the rear side of the block. The screws 16 have an operative engagement with nuts 18 seated in recesses 19 in the rear side of the block as shown in Fig. 5 of the drawing. The inner ends of the screws have a loose engagement with sockets formed in the blocks 14 and have on their outer ends operating heads 20. On the front side of the block 1 between the passages 13 is formed a transversely disposed rib 21 having beveled edges. The points of the cutting teeth are placed against this rib 21 and are then struck with a hammer and thus set to the desired angle. In the rear side of the block 1 adjacent its upper edge and above the upper edge of the back plate 2 is formed a longitudinally disposed groove 22 having a square upper wall



and an inclined or angular lower wall. In the back of the block above the groove are arranged a series of stop pins 23. Formed in the block midway between the passages 5 13 and below recessed portion of the flange 3 is formed a guide passage 24 in which is arranged a file clamping block 25 having a rearwardly projecting file engaging lug 26. In the block 25 is formed a threaded socket 10 which is engaged by the threaded upper end of a clamping screw 27 which is arranged in a groove 28 formed in the back of the block. The screw 27 is revolvably secured in the groove 28 by retaining members 29 arranged 15 as shown and on the outer end of the screw is formed a head 30 whereby the screw may be operated to screw the block upwardly and thereby clamp the file 31 against the upper wall of the groove 22 and stop pins 23 20 thus securely holding the file in place to receive the teeth of the saw when engaged therewith, thereby evenly jointing the same.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the 25 invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may 30 be resorted to without departing from the principle or sacrificing any of the advantages of this invention, as defined in the appended claims.

Having thus described my invention what I claim is:—

1. The combination of a plate provided with a flange on its front face at its upper end and having a central opening through said flange and shallow recesses in the flange at the sides of said opening, lugs on the plate 40 below and spaced from the upper walls of said recesses, a die extending through said opening and having a working face projecting between the spaced lugs, wings projecting laterally from the sides of the die and 45 playing in the recesses, a holding bar secured on the flange and extending over the opening and recesses therein in front of the die and adjustable saw supports mounted in the plate below the flange. 50

2. The combination of a plate having a flange on its front face at its upper end and provided with vertical slots below and leading to said flange, a die mounted in and playing through said flange, saw supporting 55 blocks mounted in said vertical slots and having forwardly projecting lugs on their front sides, and adjusting screws mounted in the plate and swiveled to said blocks.

In testimony whereof I have hereunto set 60 my hand in presence of two subscribing witnesses.

LEN GREER.

Witnesses:

H. J. LEE,  
J. D. GRIFFIN.