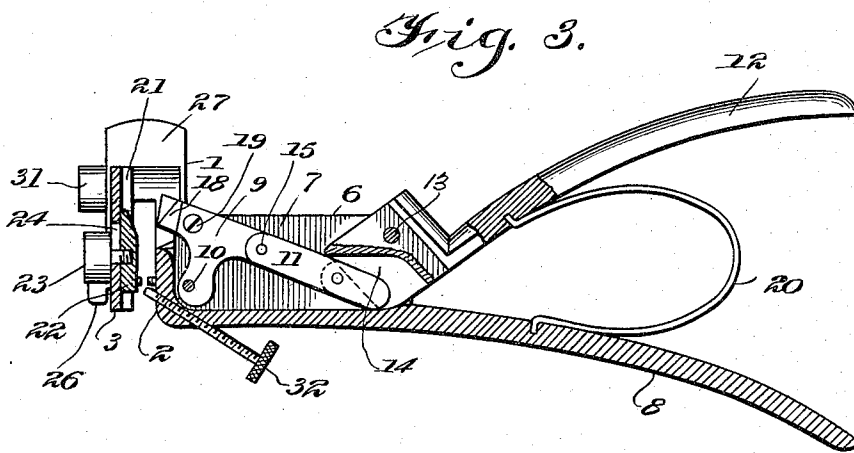
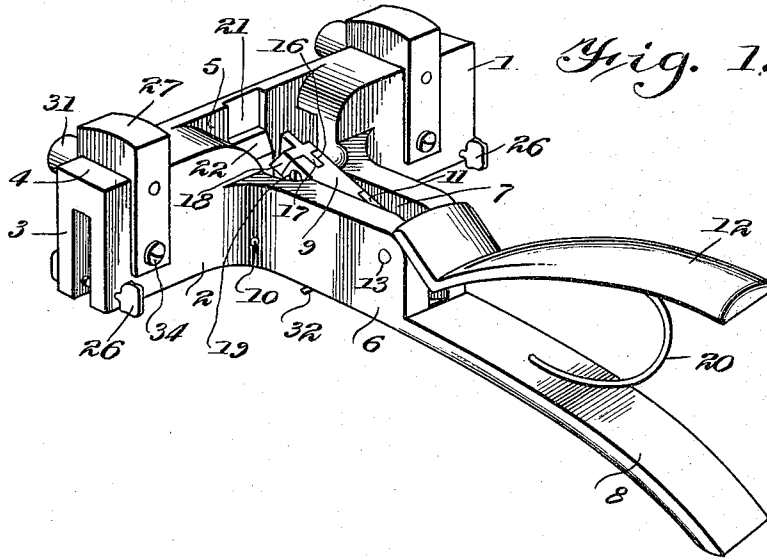


W. J. JACOBS.  
SAW SET.  
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1,155,927.

Patented Oct. 5, 1915.  
2 SHEETS—SHEET 1.



Witnesses

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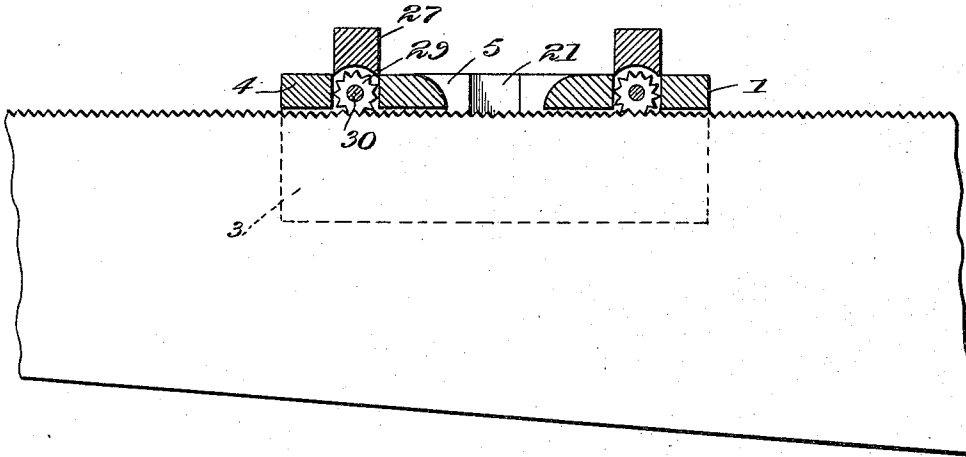
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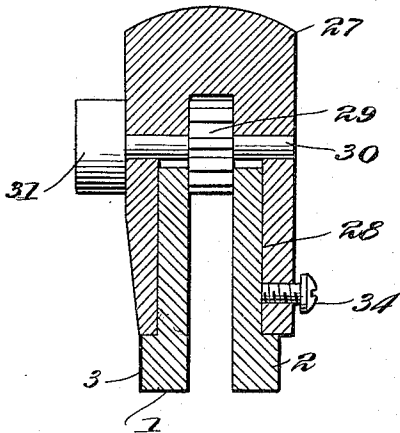
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2 SHEETS—SHEET 2.

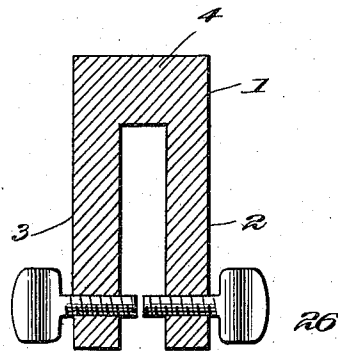
*Fig. 2.*



*Fig. 4.*



*Fig. 5.*



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# UNITED STATES PATENT OFFICE.

WILLIAM J. JACOBS, OF VANCEBORO, NORTH CAROLINA, ASSIGNOR OF ONE-HALF TO  
JOHN SIMPSON, OF VANCEBORO, NORTH CAROLINA.

## SAW-SET.

1,155,927.

Specification of Letters Patent.

Patented Oct. 5, 1915.

Application filed February 17, 1915. Serial No. 8,850.

*To all whom it may concern:*

Be it known that I, WILLIAM J. JACOBS, a citizen of the United States, residing at Vanceboro, in the county of Craven and State of North Carolina, have invented new and useful Improvements in Saw-Sets, of which the following is a specification.

This invention relates to improvements in devices for setting the teeth of saws, the object of the invention being to provide an improved saw setting device which is cheap and simple in construction, is very strong and durable, which can be adjusted to accommodate itself to saws of varying sizes, a further object being to provide an improved device of this character in which the anvil plate is detachable and adjustable and may be readily renewed and in which the setting jaw is also detachable and renewable.

The invention consists in the construction, combination and arrangement of devices hereinafter described and claimed. In the accompanying drawings:—Figure 1 is a perspective view of a saw setting device constructed in accordance with my invention. Fig. 2 is a longitudinal sectional view of the same and showing the saw set mounted for use on a saw. Fig. 3 is a vertical transverse sectional view of the same on a plane disclosing a swinging setting jaw and its operating lever and link, and also intersecting the adjustable anvil plate. Figs. 4—5 are detail transverse sectional views.

In the embodiment of my invention I provide a head or frame 1 which is of inverted U-shape, cross sectionally, comprising spaced walls 2—3 and a web 4 which connects said walls at their upper sides. The front wall 2 and the web 4 are formed with a centrally arranged opening 5 and an arm 6 is formed at the center of the front wall and extends outwardly therefrom and has that portion which is contiguous to the said wall formed with a slot 7 which is open at its upper side, the outer portions of said arm being formed with a downturned curved handle or lever 8.

A swinging jaw 9 is pivotally mounted near the inner end of the said slot as at 10, is arranged with its major portion in said slot and is connected by a link 11 to a lever handle 12 which is pivotally mounted as at 13 near the outer end of said slot and is provided with a notch 14 in which the

outer end of said link is engaged, so that a knuckle joint is formed between the link and the lever. The inner end of said link is pivotally connected as at 15 to the outer upper end or corner of the swinging jaw. The inner face of the jaw is provided with a rebate 16 to receive a shank 17 on the back of a plunger 18. Said plunger is detachably secured in place on the swinging jaw by a set screw or other suitable device 19 and may be removed when worn or injured to permit the substitution of another. This construction also enables plungers of different forms, according to the size and style of the saws to be set, to be used with the device. A suitable spring 20 is employed to open the lever handle 12 from the lever handle 8 and hence cause the link to normally hold the swinging jaw in open position.

On the inner side of the rear wall 3 at a point opposite the swinging jaw, is a vertical groove 21 in which is mounted a vertically adjustable anvil plate 22. This anvil plate is detachably and adjustably held in position by a set screw 23 the shank of which is arranged in a vertical slot 24 with which the wall 3 is provided. When the anvil plate becomes worn or injured it may be removed and another substituted. It may also be adjusted vertically according to the requirement of the saws on which the device is used. The walls 2—3 are provided near their lower corners with clamping screws 26 to engage opposite sides of the saw and adjust the device with respect thereto and with its walls on opposite sides of the saw. I also provide a pair of vertically adjustable yokes 27 which are of inverted U-shape and the arms of which are vertically slidably mounted in grooves 28 with which said walls are provided. Feed rollers 29 are mounted near the upper portions of the yokes and are peripherally milled, roughened or toothed to cause them to engage the points of the saw teeth and said feed rollers are provided with shafts 30 which are mounted in bearings in the yokes and are provided at their rear ends with heads 31 which permit said shafts to be turned manually so as to cause them to turn said feed rollers and hence cause the said rollers to move the saw set on the saw, from tooth to tooth, as the operation of setting the saw proceeds. In practice these feed rollers are made of

leather, paper or other suitable material, to prevent them from dulling or otherwise injuring the points of the saw teeth.

5 Opposite and below the anvil plate there is a set screw 32 which is mounted in a threaded opening in the lower side of the arm 6 and center of the wall 2 and which is used in holding the set in adjusted position on the saw.

10 It will be understood that in the operation of my improved saw set the same will be arranged astride of a saw and with a tooth of the saw between the anvil plate and the punch. The swinging jaw is then  
15 operated by the lever 12 so as to cause the punch to engage the tooth on the side opposite the anvil plate and to bend the tooth laterally and against the opposing inclined surface of the anvil plate thereby setting  
20 the tooth as required.

As before indicated the saw set is moved longitudinally on the saw from tooth to tooth by manually turning the feed rollers. The feed rollers are adjustable vertically  
25 by means of the vertically movable yokes which carry them, said yokes being secured in any desired adjustment by means of set screws 34.

30 While I have herein shown and described a preferred form of my invention, I would have it understood that changes may be made in the form, proportion and construction of the several parts without departing from the spirit of the invention and within  
35 the scope of the appended claims.

Having thus described my invention, I claim:—

1. In a saw set a head comprising spaced walls for arrangement on opposite sides of a saw, an anvil on the inner side of one of said walls, a swinging jaw mounted in the other wall at a point opposite the anvil and provided with a punch, means to operate said swinging jaw, feed rollers at the upper sides of said walls to engage the points of the saw teeth and vertically movable bearings in which said feed rollers are mounted, and comprising inverted U-shaped yokes having their arms slidably mounted in said walls.

2. In a saw set, a head comprising spaced walls for arrangement on opposite sides of a saw, an anvil on the inner side of one of said walls, a swinging jaw mounted in the other wall at a point opposite the anvil and provided with a punch, means to operate said swinging jaw, feed rollers at the upper sides of said walls to engage the points of the saw teeth and vertically movable bearings in which said feed rollers are mounted, and comprising inverted U-shaped yokes having their arms slidably mounted in said walls, and means to vertically and detachably secure said anvil.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM J. JACOBS.

Witnesses:

JOHN SIMPSON,  
I. J. BROODIE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."