

(No Model.)

R. JAMES.
SAW SET.

No. 459,548.

Patented Sept. 15, 1891.

Fig. 1.

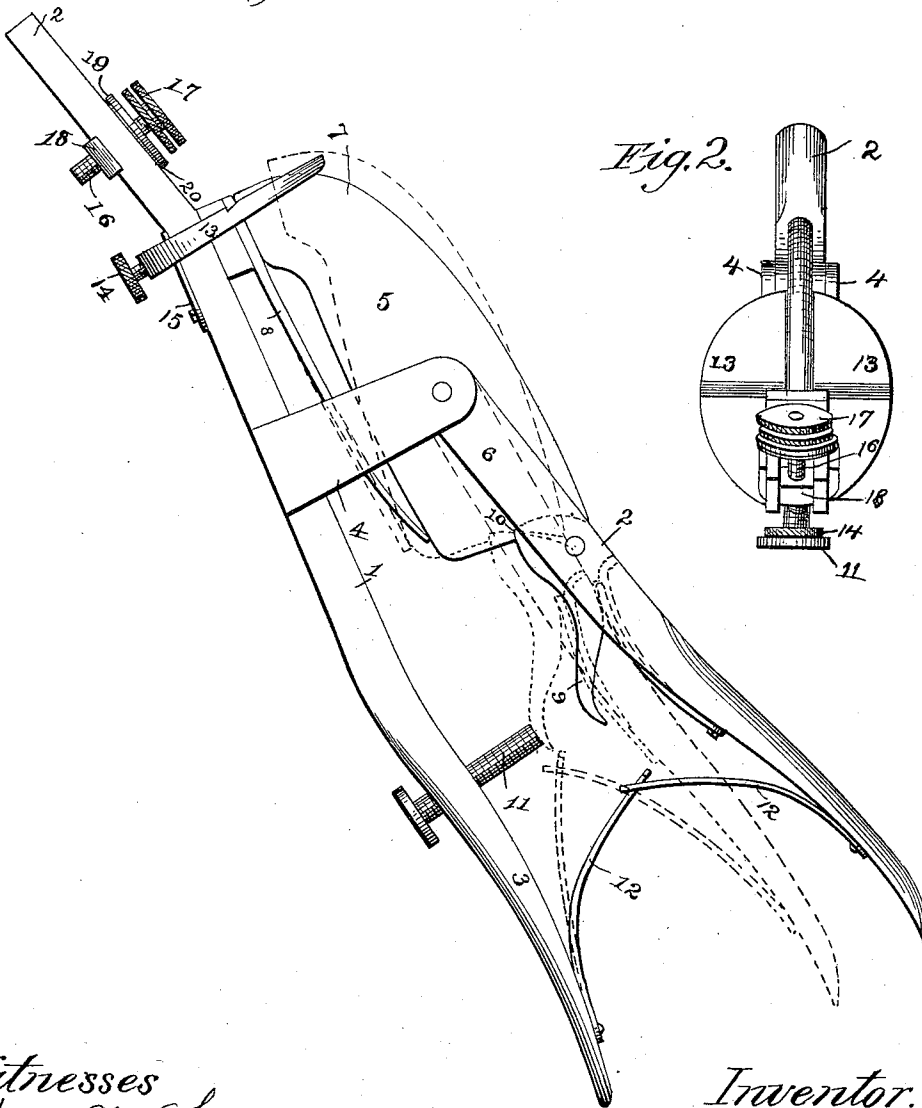
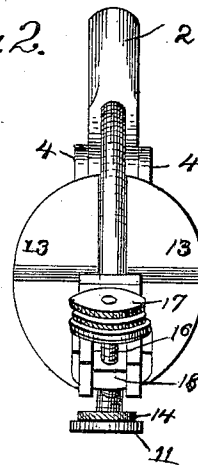


Fig. 2.



Witnesses

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ROBERT JAMES, OF RUSSELLVILLE, KENTUCKY.

SAW-SET.

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To all whom it may concern:

Be it known that I, ROBERT JAMES, a citizen of the United States, residing at Russellville, in the county of Logan and State of Kentucky, have invented a new and useful Saw-Set, of which the following is a specification.

The invention relates to improvements in saw-setting devices.

The object of the present invention is to provide a simple and inexpensive saw-setting device which will be adapted to operate upon saws varying in size and thickness, and to give a uniform inclination to the teeth and capable of ready adjustment to regulate the inclination of the teeth.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a side elevation of a saw-setting device constructed in accordance with this invention. Fig. 2 is an end view.

Referring to the accompanying drawings, 1 designates a bar constructed of metal and forming the frame of the device, and having its end 2 bifurcated and its other end 3 shaped into a handle and provided intermediate its ends with perforated ears 4, having pivotally mounted between them a hammer 5 and a lever 6. The hammer 5 is pivoted intermediate its ends between the perforated ears 4, and has its outer end 7 formed into a striking-head and adapted to engage the teeth of the saw, and it is actuated and caused to descend with force by a main spring 8, which is secured to the bar 1 and extends longitudinally to the same and engages the lower face of the hammer at the rear or inner end thereof. The hammer is lifted and brought into a position for striking by the lever 6, which is provided with a trigger 9, arranged to engage a shoulder 10 of the rear end of the hammer, and when the lever 6 descends to raise the striking end of the hammer the trigger is engaged by an adjustable screw 11, which trips the hammer by carry-

ing the trigger out of engagement with the shoulder 10. The screw 11 is adapted to be adjusted in the bar 1 to vary the stroke of the lever and the fall of the hammer to accommodate the device to different kinds of saws. The lever is held normally above the bar 1, so that the device is always ready to be operated by a downstroke, and interposed between the bar and the lever are springs 12. The free striking end of the hammer is guided by an adjustable yoke 13, which is provided with a set-screw 14, whereby the yoke is adjusted to gage the amount of the set, and the yoke is engaged by a spring 15 to prevent displacement of the yoke. The end 2 of the bar 1 is provided with an adjustable supporting-screw 16, adapted to form a rest for a saw, and being threaded to its head 17, which is provided with an annular groove to receive an edge of a saw. The supporting-screw is adjustable along the end 2 and is secured in any desired position by nuts 18 and 19, arranged to clamp the bar 1, and a disk of rubber 20 is provided and is arranged beneath the nut 19 to prevent the latter slipping. The smaller class of saws are brought in engagement with the grooved head 17 to provide a rest, and in larger saws the screw 16 is reversed.

It will be seen that the saw-setting device is simple, comparatively inexpensive, strong, and durable, and is adapted to set the teeth of various kinds of saws at a uniform inclination.

What I claim is—

1. The combination of a frame, a hammer pivotally mounted on the frame, a lever similarly mounted on the frame and provided with a trigger arranged to engage the hammer, and an adjustable screw arranged on the frame and adapted to engage the trigger to trip the hammer, substantially as described.

2. The combination of the frame provided with perforated ears, a hammer pivotally mounted on the ears and provided with a shoulder, a lever pivoted to the ears and provided with a trigger arranged to engage the shoulder of the hammer, an adjustable screw arranged to engage the trigger and trip the

hammer, and springs for engaging the hammer and lever, substantially as described.

3. The combination of the frame, a hammer mounted on the frame, means for operating the hammer, an adjustable yoke mounted on the frame and arranged to guide the hammer and provided with a set-screw, and a

spring secured to the frame and engaging the yoke, substantially as described.

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Witnesses:

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