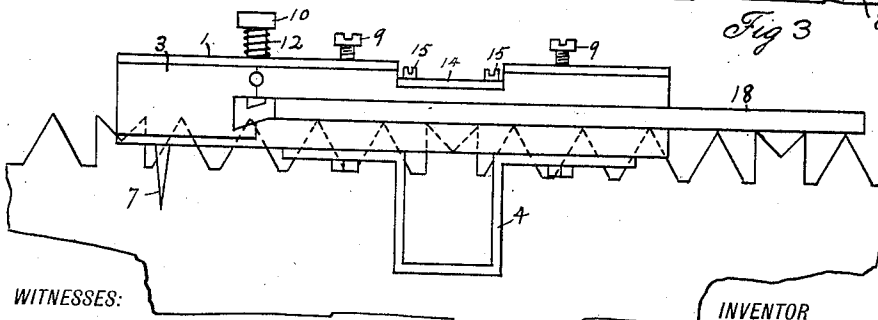
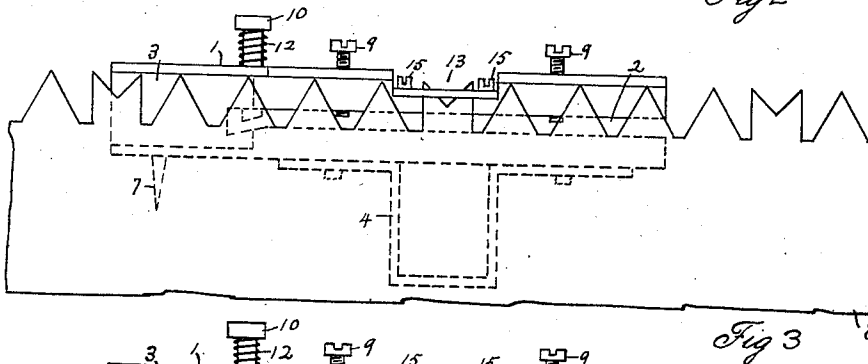
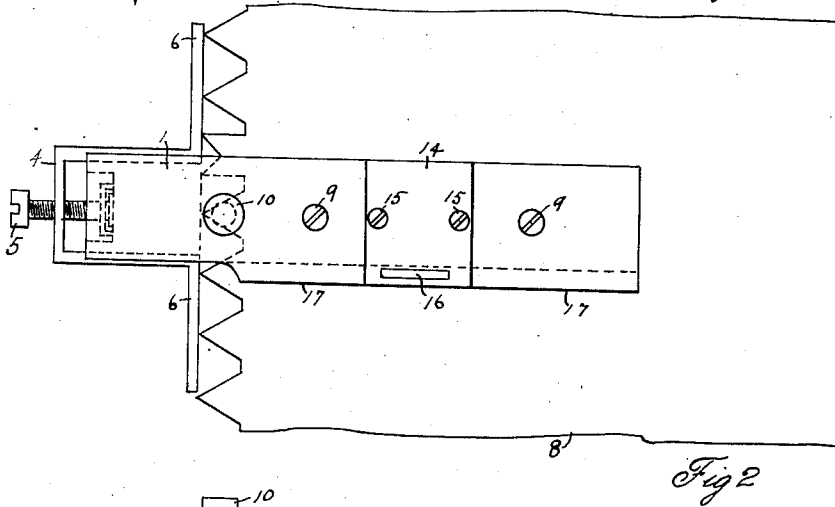
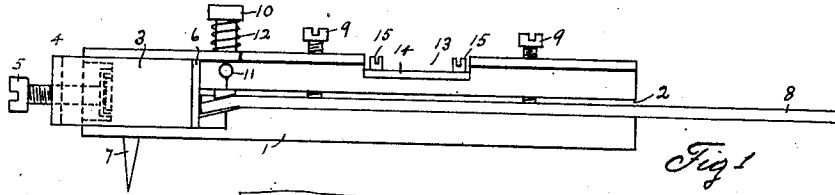


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SAW SET.

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1,047,179.

Patented Dec. 17, 1912.



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Fig. 4.

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SAW-SET.

1,047,179.

Specification of Letters Patent.

Patented Dec. 17, 1912.

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To all whom it may concern:

Be it known that I, JOHN H. DEVINI, a subject of the Emperor of Austria-Hungary, residing at Cleveland, in the county of Liberty and State of Texas, have invented certain new and useful Improvements in Saw-Sets, of which the following is a specification.

My invention relates to new and useful improvements in a combined saw set and striker.

The object of the invention is to provide a device of the character described for the combined purpose of setting the teeth of a saw and filing off the points thereof so as to give a uniform length to the cutting teeth.

Another object of the invention resides in the provision of means whereby the drag teeth of the saw may have their points removed so that all of said drag teeth will be equal in length to each other but somewhat shorter than the cutting teeth.

With the above and other objects in view my invention has particular relation to certain novel features of construction and arrangement of parts an example of which is given in this specification and illustrated in the accompanying drawings, wherein:—

Figure 1 is a side elevation of the device with a saw shown therein in position for having the teeth thereof set. Fig. 2 is a plan view thereof. Fig. 3 is a side elevation of the device, showing the saw therein in position for having the points of the drag teeth thereof removed, and Fig. 4 is a side elevation of the device showing a file secured therein and applied to the cutting points of the saw teeth for the purpose of removing said points until the teeth shall be of uniform length.

Referring now more particularly to the drawing wherein like numerals of reference designate similar parts in each of the figures the numeral 1 refers to the body portion of the device which is an oblong member substantially square in cross section and being provided with a transverse slot 2 which extends from one end thereof, preferably, about three-fourths of the distance to the other end and is uniform in width with the exception that at the last mentioned end thereof it gradually widens for a purpose hereinafter to be set forth. The sides of the unslotted end of the member 1 are provided with wide shallow grooves 3 and a U shaped

guard 4 is provided whose open end is designed to receive the end of the member 1, the sides of said guard fitting into the grooves 3. The base of guard 4 has a tapped hole designed to receive the set screw 5 whose inner end engages with the end of member 1 and by means of said set screw the position of the guard 4 with respect to the member 1 may be regulated. Each of the free ends of guard 4 is provided with a laterally extending wing 6, which is integral therewith said wings 6 extending in opposite directions and being alined with each other.

When it is desired to set the teeth of a saw the device is first secured to any suitable support by driving the spike 7 which is integral with the member 1 into said support and the device is thus held firmly in position. The saw 8 is then placed in the slot 2 with the teeth thereof pointing toward the inner end thereof and with their points resting against the flat faces of the wings 6 of guard 4. As heretofore stated the inner end of the slot 2 is widened, the lower side of said end of this slot slightly declining so as to give a space in order that the teeth of the saw may be bent or "set". Set bolts 9 are provided which are designed to be engaged in corresponding tapped holes through the upper portion of the member 1 and whose free ends project into slot 2 and when the saw is placed in said slot said set bolts may be screwed down until their lower ends press against said saw and the same is thereby firmly held in place, or in case the slot 2 is considerably wider than the thickness of the saw, the said set bolts 9 may be screwed down until their free ends rest lightly against the saw and the saw will thus be held steady in the slot while its teeth are being set but at the same time will be permitted to slide therein.

Near the inner end of the slot 2 and extending down through the upper portion of the member 1 is a set bolt 10, which is secured in place by means of a set screw 11 which is screwed into the side of member 1 and whose inner or free end projects into an oblong slot in the side of set bolt 10. This set bolt 10 is thus secured in the member 1 and at the same time is allowed a limited vertical play therein. The set bolt 10 is provided with a suitable head interposed between which and the member 1 is a push spring 12 operating in resistance to said

member and head and tending to keep the said set bolt elevated. As the saw 8 is moved along laterally in slot 2 its teeth pass under the lower end of the set bolt 10 and as the alternate cutting teeth pass thereunder the set bolt 10 is struck by a hammer or some similar implement and the tooth thereunder is given a lateral bend or set. The position of the points of the teeth with reference to the set bolt 10 may be determined by the position of guard 4 which in turn is regulated by the set screw 5 and a long or a short bevel may be given to the teeth by so regulating guard 4 as to bring the operative end of set bolt 10 a considerable distance from, or near to, the teeth points.

When the alternate cutting teeth have been bent or beveled in one direction the saw may then be reversed in slot 2 and the other cutting teeth may then be beveled in the opposite direction and all of the teeth of the saw may thus be uniformly "set". As is well known the ordinary saw is provided with cutting teeth and at certain intervals drag teeth are provided which are somewhat shorter than the cutting teeth and which are provided for the purpose of forcing out the shavings which are cut by said cutting teeth. For the purpose of providing a device whereby these drag teeth may be filed off to a uniform length and somewhat shorter than the cutting teeth a transverse slot or groove 13 has been provided across the upper portion of the member 1 and a plate 14 secured therein by screws 15 and the edge of said plate 14 projects out at one side beyond the side of the member 1 and has an oblong slot 16 which is of a size to receive snugly the drag teeth and the upper side of the member 1 carries overhanging shoulders 17 on each side of the slot 13 against which the points of the cutting teeth rest while the points of the drag teeth project through the slot 16, as shown in Fig. 3.

When the saw is in this position, as shown in Fig. 3, and a drag tooth projects up through slot 16 an ordinary flat file may be used to remove the points of said tooth projecting above the plate 14 and each of the drag teeth may thus have its points removed thus leaving the drag teeth all equal in length and the slot 13 is of sufficient depth so that the plate 14 will be below the shoulders 17 and when the points of the drag teeth have been removed, as hereinbefore described, the cutting teeth will be somewhat longer than the drag teeth. When the device is used for this purpose the guard 4 is secured upon the bottom of member 1 and serves as a side rest to steady the saw.

In order to bring the cutting teeth to a uniform length before they are sharpened the device may be used as a file holder, the file 18 being placed in slot 2 and secured

therein by set screws 9. This file is the ordinary flat file and of sufficient width to project out beyond the side of the member 1 and when used for this purpose the guard 4 is secured on the bottom of member 1 and serves as a side rest in the same manner as is shown in Fig. 3. When used for this purpose the saw is secured upon any desirable support with the cutting edge upward and the device is placed against the side thereof so that the file 18 will rest upon the points of the saw teeth and it is manually moved along said points until all of the cutting teeth are uniform in length. These teeth may then be sharpened until their points are perfectly sharp.

When the entire operation has been completed by the use of this device the cutting teeth will be uniform in length and uniformly set and the drag teeth will be uniform in length and somewhat shorter than the cutting teeth.

What I claim is:—

1. A device of the character described including a body portion having a lengthwise slot extending from one end thereof, a portion of the way to the other end, and having its inner end widened, a set bolt carried by the body portion and projecting into the widened part of said slot, an adjustable guard slidably secured upon the unslotted end of the body portion and operating independent of the set bolt and means for securing the device to a support.

2. A device of the character described including a body portion having a longitudinal slot extending from one end thereof a portion of the way to the other end and having its inner end widened, a set bolt carried by the body portion and projecting into the widened portion of the slot, a resilient seat upon which said set bolt rests, a means for preventing the withdrawal of said bolt, an adjustable guard slidably secured upon the unslotted end of the body portion and operating independently of the set bolt, and means for adjusting said guard upon the said body portion and for securing the device to a support.

3. A device of the character described including a body portion having a longitudinal slot extending from one end thereof a portion of the way to the other end for the reception of a saw and having its inner end widened, a set bolt carried by the body portion and projecting into the widened end of the slot, a resilient seat upon which said set bolt rests and by which it is normally held withdrawn from said slot, a means engaging with said set bolt and preventing its complete withdrawal, an adjustable guard slidably secured upon the unslotted end of the body portion and movable independently of the set bolt, wings extending laterally from said guard and a set screw having a thread-

ed engagement with said guard and secured to said body portion whereby the guard may be adjusted on the body portion.

4. A device of the character described including an oblong body portion having a longitudinal slot extending from one end thereof, a portion of the way to the other end for the reception of a saw, said slot having its inner end widened, a plurality of set screws carried by said body portion whose inner ends project into said slot, provided for the purpose of being screwed against the saw to hold the same firmly in said slot, a set bolt slidably secured in said body portion and having its inner end projecting into the widened portion of the slot and arranged to project against the saw teeth, a resilient seat upon which said set bolt rests and by which its inner end is normally held withdrawn from said slot, a means engaging

with said set bolt and preventing its complete withdrawal, an adjustable U-shaped guard which fits over the unslotted end of the body portion and is slidable thereon and operating independently of the set bolt, wings extending laterally each way from said guard and provided to rest against the points of the saw teeth, a set screw having a threaded engagement with said guard and also engaging with the body portion and provided to adjust the guard relative to the body portion, and means for securing the device to a support.

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

JOHN H. DEVINI.

Witnesses:

A. TOMPKINS,
W. H. YOUNG.

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