April 8, 1952 J. M. HANSON, SR 2,592,278

CHAIN SAW DEPTH GAUGE

Filed Aug. 9, 1950

Fig. 1.

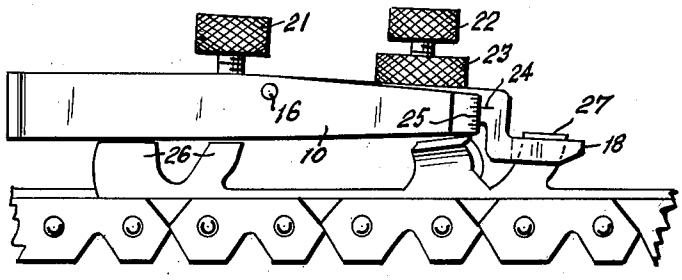


Fig. 2.

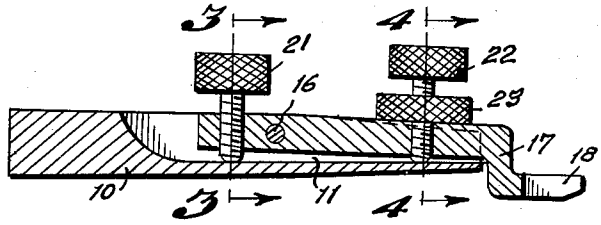


Fig. 3.

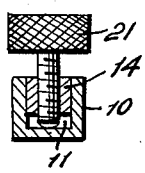


Fig. 4.

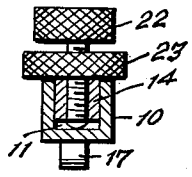


Fig. 5.

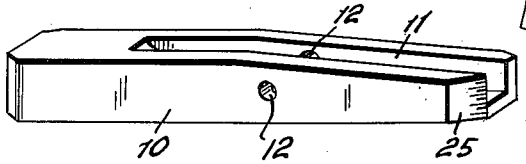
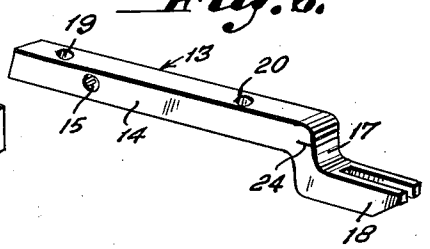


Fig. 6.



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CHAIN SAW DEPTH GAUGE

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Application August 9, 1950, Serial No. 178,365

3 Claims. (Cl. 33—202)

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The present invention relates to a chain saw depth gauge and it consists in the combinations, constructions and arrangements of parts herein described and claimed.

Generally there is provided a saw tooth depth gauge having an elongated base generally rectangular in cross sectional area and provided with an elongated centrally disposed slot in one end wherein is vertically pivoted upon a transversely extending hinge pin, a filing plate which extends downwardly and thence outwardly, the outwardly extending portion being bifurcated to receive therein a cutting blade of a saw. The bifurcated portion is of hardened steel and the operator utilizes the same as a rest for his file in filing the blade positioned therebetween. A thumb screw extends vertically through the body of the filing plate to impinge upon the bottom of the slot and one of such screws is provided upon either side of the hinge pin whereby the bifurcated portion aforesaid may be raised and lowered with respect to the body of the saw. An indicia bearing scale is provided upon the base and is adapted to coact with a marker upon the filing plate whereby the plate may be set to predetermine gauges.

It is accordingly an object of the invention to provide a device of the character set forth which is simple in construction, inexpensive to manufacture and yet effective and efficient in use.

A further object of the invention is the provision of a compact portable device of the character set forth having a novel gauge forming a part of the invention.

A still further object of the invention is the provision, in a device of the character set forth, of a novel means for adjusting and locking a filing plate forming a part of the invention.

Other and further objects of the invention will become apparent from a reading of the following specification taken in conjunction with the drawing, in which:

Figure 1 is a side elevational view of an embodiment of the invention,

Figure 2 is a vertical sectional view of the device shown in Figure 1,

Figure 3 is a sectional view taken along line 3—3 of Figure 2,

Figure 4 is a sectional view taken along line 4—4 of Figure 2,

Figure 5 is a perspective view of a base member forming a part of the invention, and

Figure 6 is a perspective view of a filing plate forming a part of the invention.

Referring more particularly to the drawing, there is shown therein an elongated base member

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10 whose top and bottom taper slightly inwardly throughout approximately one half of its length and which is provided with a milled slot 11 which extends longitudinally from the narrower end of the body and longitudinally therethrough for approximately three-quarters of the length of such body. A pair of opposed laterally extending openings 12 extend approximately centrally through the sides of the body 10 and communicate with the slots 11.

A filing plate 13 is provided with an elongated body portion 14 which is generally rectangular in cross sectional area and which is provided with a laterally extending opening 15 in the rear portion thereof. A hinge pin 16 extends through the openings 12 and the opening 15 to interconnect the body 10 with the filing plate 13.

Integrally connected with the body portion 14 of the plate 13 is a downwardly extending arm 17 having an integrally formed outwardly extending bifurcated member 18.

Rearwardly of the transverse opening 15 in the body portion 14 there is provided a vertically extending opening 19 and rearwardly of the forward end of the body 14 there is provided a like vertically extending opening 20, the openings 19 and 20 being each threaded to receive respectively, thumb screws 21 and 22 whose lower ends are adapted to bear against the bottom of the groove 11.

The thumb screw 22 is also provided with a locking screw 23. On one side of the arm 17 there is provided a longitudinally extending marker 24 which is adapted to coact with a vertically extending scale 25 which is mounted upon the adjacent forward side of the body 10.

In operation, it will be apparent that the device may be placed with its bottom resting upon a pair of saw teeth 26, as illustrated in Figure 1 of the drawing, while the bifurcated portion 18 straddles a blade 27 to be filed. The bifurcated portion of the device, indicated at 18, is hardened so as to resist wear when a file is placed thereacross to file the outer edge of the blade 27 and it will be apparent that, in order to properly set the device, the locking screw 23 is first loosened after which the thumb screws 21 and 22 may be manipulated to pivot the body portion 14 of the filing plate 13 upon the hinge pin 16 and when the proper angle has been found by reading the scale 25 with the marker 24, the locking screw 23 may again be tightened to maintain the device in proper setting so that succeeding blades 27 may be filed identically with the aforementioned blade 27.

While but one form of the invention has been shown and described herein, it will be readily apparent to those skilled in the art that many minor modifications may be made without departing from the spirit of the invention or the scope of the appended claims.

What is claimed is:

1. A device of the character described comprising an elongated body, a file plate pivotally connected to said body, means for adjusting the plate and said body, a bifurcated end portion for said file plate adapted to receive a saw tooth of a chain saw therebetween, said means including a groove in said body for the reception therein of a portion of said plate, a pivot pin interconnecting said plate and said body, and a thumb screw extending through said plate upon either side of said pin and each adapted to impinge upon the bottom of said groove.

2. A device of the character described comprising an elongated body, a file plate pivotally connected to said body, means for adjusting the plate and said body, a bifurcated end portion for said file plate adapted to receive a saw tooth of a chain saw therebetween, a scale affixed to said body and a marker upon said plate adapted to coact with said scale to indicate the degree of angular relationship between the file plate and the body, said means including a groove in said body for the reception therein of a portion of said plate, a pivot pin interconnecting said plate and said body, and a thumb screw extending through said plate upon either side of said pin and each adapted to impinge upon the bottom of said groove.

3. A device of the character described comprising an elongated body, a file plate pivotally connected to said body, means for adjusting the plate and said body, a bifurcated end portion for said file plate adapted to receive a saw tooth of a chain saw therebetween, a scale affixed to said body and a marker upon said plate adapted to coact with said scale to indicate the degree of angular relationship between the file plate and the body, said means including a groove in said body for the reception therein of a portion of said plate, a pivot pin interconnecting said plate and said body, and a thumb screw extending through said plate upon either side of said pin and each adapted to impinge upon the bottom of said groove, and said bifurcated portion being formed of hardened steel.

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The following references are of record in the file of this patent:

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