## N. C. WELLS.

WEOGE CUTTING MACHINE. APPLICATION FILED OCT. 9 ; 1917.
$1,275,80 \%$ 。
Patented Aug, 13, 1918.
2 sheets-sheet 1.




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$x_{9}$ \%

# UNITED STATES PATENT OFEICE. 

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WEDGE-CUTTIING ILACHINE.
$1,275,80 \%$
Specification of Letters Patent. Patented Aug. 13, 1918. Application filed October 9,1917 . Serial No. 195,592.

## To all whom it may concern:

Be it known that I, Newron C. Weus, a citizen of the United States of America, residing at Globe, in the county of Gila and and useful Improvements in Wedge-Cutting Machines, of which the following is a specification, reference being had therein to the accompanying drawing. invention consists of certain novel combinations and arrangements of parts, as will be hereinafter fully described and claimed.

In the accompanying drawings:-
45. Figure 1 is a perspective view of the device.
Fig. 2 is a top plan view of the device.
Fig. 3 is a section taken on line $3-3$ of Fig. 2, showing the device attached to the ve work table.

Fig. 4 is a detail perspective view of the wedge guide with the necessary operating parts.

Fig. 5 is a detail perspective view of the BE wedge.

Fig. 6 is a section taken on the line $6-6$ of Fig. 2 looking in the direction of the arrow.
By referring to the accompanying draw0 ings by numerals, it will be seen that 1 designates the bench which is provided with an elongated slot 2 , through which the circular saw 3 passes. This circular saw 3 is mounted upon the shaft 4 and is provided with the usual teeth 5 . The bench 1 is proat right angles to the slot 2. In the slot 6 there is positioned the bolt 7 , upon which is mounted the brace 8 , which brace 8 car-
50 ries the track 9 . Upon the bolt 7 there is provided the thumb nut 10 , whereby the track when adjusted in the desired position may be fixedly held in position.

A sliding gage is placed upon the track
This invention has for its principal object the production of a machine whereby the operator may cut wedges without any danger of cutting his hands, or having splinters fly in his face, when using the circular saw.

Another object of this invention is the production of a simple and efficient device which may be easily attached to a saw table to cut wedges of different sizes out wedges of different sizes. mediate the end portions of the tilting gage 20 , there is provided the lever 24 , which is fixedly attached to said tilting gage, by means of the nails or screws 25. This lever 24 is held in pivotal engagement with the rod 26 , by means of the pin 27. A spaced distance from the end of this rod 26 there is positioned the operating handle 28. Upon the upper plate 12 there is provided the elongated slot 29 through which passes the handle 28 . From the above described structure, it will be seen that when the handle 28 is carried in either direction in the slot 29 , the tilting gage 20 will pivot upon the pivot pin 21.

When this device is in operation, the rectangular piece of wood is placed along side the outer edge of the tilting gage 20 and the sliding gage is adjusted by means of the bolt 7 and the nut 10 to the desired position, and the sliding gage is passed along the track 9 , so that the rectangular piece of wood will come into engagement with the saw 3, after the tilting gage 20 has been placed in the desired position. It will be seen that the rectangular piece of wood will lie along the outer edge of the tilting gage 20 and will abut against the stop blocks 14 , which will prevent the gage
vided the tilting gage 20 , which is provided with the pin 21 , so that the same may be pivotally mounted between the top and bottom plates. This pivot pin 21 passes through the apertures 22 , as is clearly shown in Fig.3. Between the plates 11 and 12 there are also provided the stop pins 23. Inter-
gage consists of the depending plate 11 and the top plate 12. These plates 11 and 12 are field apart, by means of the blocks 13. Adjacent these blocks 13 there are provided the stop block 14, as is clearly shown in Fig. 6. These stop blocks are provided with the body portions 15 and the necks 16 . Upon one edge of the top plate 12 there are fixedly mounted the guiding brackets 17 , which fit over the track 9 , as clearly shown in Fig. 3. Upon the opposite edge there are fixedly carried the guard brackets 18 , upon which is mounted the guard 19. This guard 19 is substantially U-shaped in cross section and is adapted to pass over the saw 3, thereby preventing any splinters from flying into the face of the operator.

Between the plates 11 and 12 there is pro-

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noted that the guard portion 19 is placed over the circular saw and that the guard brackets 18 are provided with the feet 29.
If wedges of different sizes are desired, it 3 will be seen that the track 9 may be adjusted, and that the sliding gage may be placed closer or farther from the saw 3. It will be seen that if a wedge is desired to be cut without having a sharp point, then 10 the tilting gage 20 may be easily adjusted to the desired position, by means of the handle 28. The whole sliding gage is ophated by grasping the knob 30 , go that the
sliding gage may be passed in and out of engagement with the saw.
What I claim is:-
A device of the class described, comprising a guide track adjustable toward and from the plane of a saw, a sliding gage engaging the track and guided thereby, and 20 a gage member having limited pivotal movement mounted on the sliding gage.
In testimony whereof I hereunto affix my signature.

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

