

Dec. 19, 1939.

E. W. GRIEBLING

2,183,675

SAW GUARD

Filed May 16, 1938

2 Sheets-Sheet 1

Fig. 1.

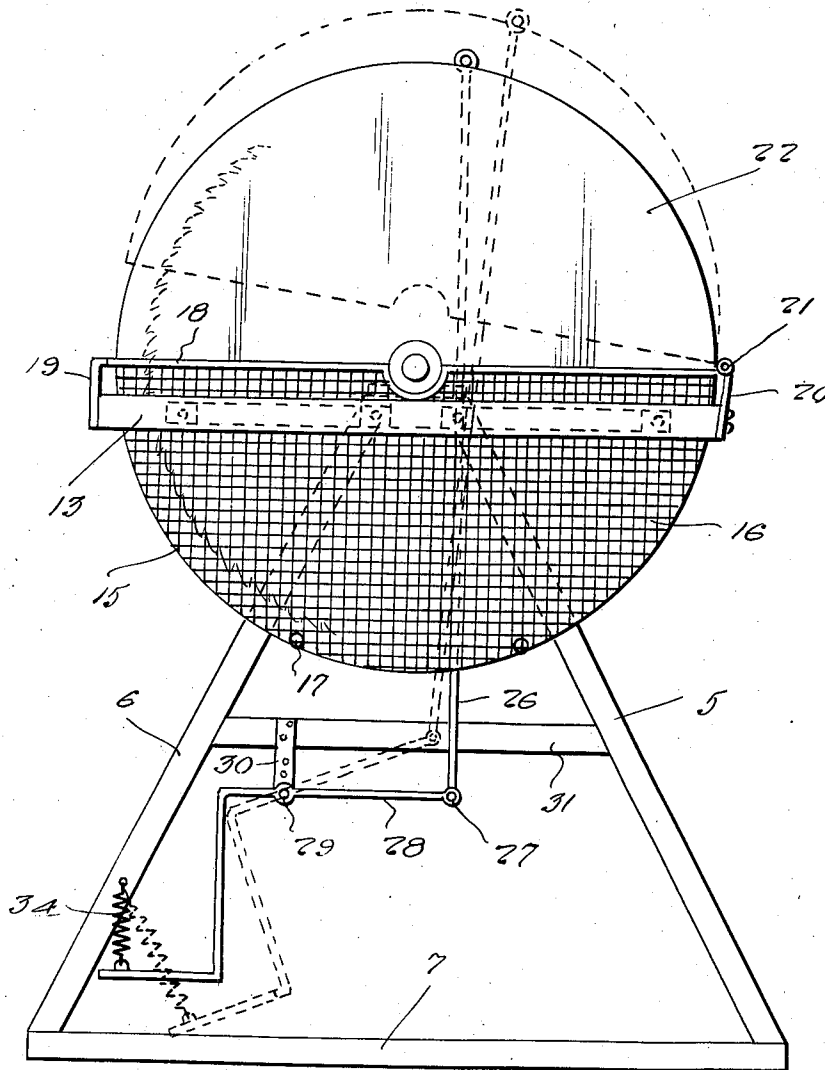
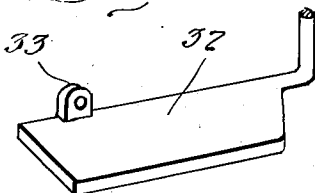


Fig. 5.



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2 Sheets-Sheet 2

Fig. 2.

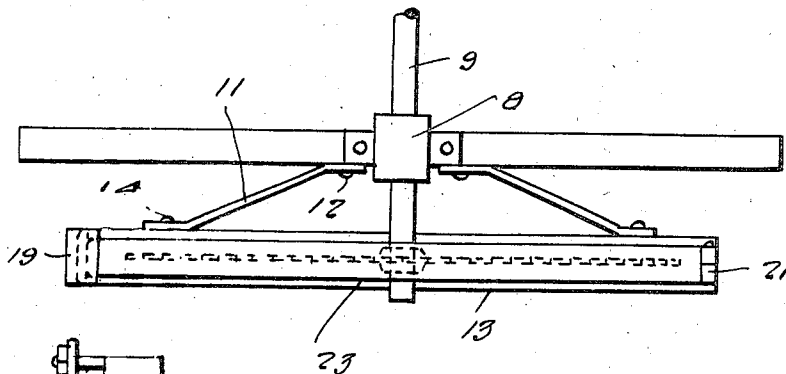


Fig. 4.

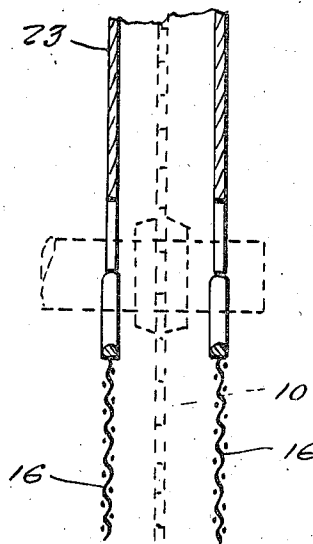
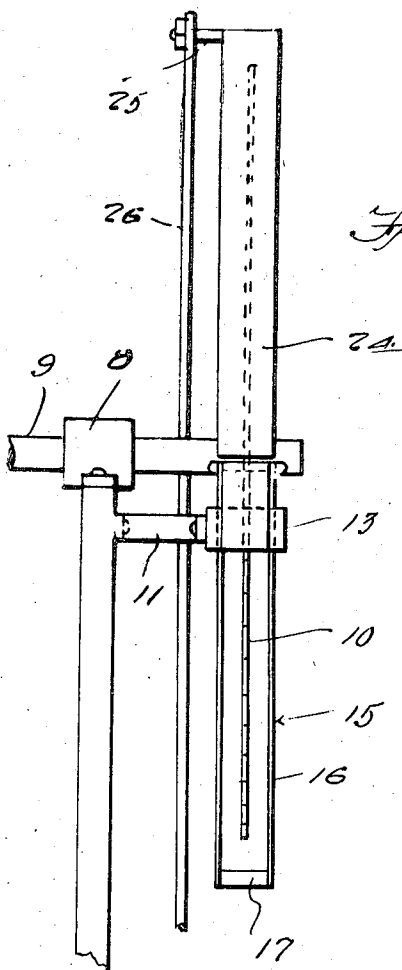


Fig. 3.



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SAW GUARD

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Application May 16, 1938, Serial No. 208,266

1 Claim. (Cl. 143—159)

The present invention relates to saw guards adapted primarily for use in connection with circular saws and comprises essentially a stationary saw guard unit for the lower portion of the saw and a movable saw guard unit for the remaining or upper portion of the saw, the upper portion of the saw guard normally being held in a closed position, together with manipulating means for said upper portion of the saw guard to raise the same to provide access to the saw, when desired.

An important object of the present invention is to provide a saw guard for circular saws in which the teeth of the saw are at all times shielded from contact with a person or object, and embodying a foot treadle operated guard section having spring means for yieldably maintaining the guard section in a closed position and adapted to be manipulated to expose a portion of the saw for use, when desired.

An additional object is to provide a device of this character of simple and practical construction, which is efficient and reliable in performance, relatively inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which

Figure 1 is a side elevational view.

Figure 2 is a top plan view.

Figure 3 is a front elevational view.

Figure 4 is a fragmentary sectional view through a portion of the stationary and movable guard sections, and

Figure 5 is a perspective view of the foot treadle.

Referring now to the drawings in detail, wherein for the purpose of illustration I have disclosed a preferred embodiment of the invention, the numeral 5 designates a shaft support embodying a pair of upwardly converging legs 6 and a base 7 supporting a bearing 8 at the upper ends of the legs for a shaft 9 upon which the saw 10 is rotatably secured.

A pair of brackets 11 are secured at one end by bolts 12 to the upper portion of the stand 5, the opposite ends of the brackets extending horizontally in opposite directions and secured to a substantially oval shaped guard frame 13 by rivets 14.

A stationary guard member indicated at 15, for the lower portion of the saw, is composed of a pair of semi-circular screen sections 16 having

their lower edges maintained in spaced relation by spacing members 17, welded or otherwise suitably secured between the screen sections, the upper edges of the screen sections being formed with a beading 18, preferably of continuous form, one end of the beading being connected to the frame 13 by an upstanding support 19 welded or otherwise suitably secured to said beading and said frame. The screen sections are positioned inwardly of the frame 13 and welded or otherwise suitably secured thereto.

At the opposite end of the frame 13 is rigidly secured a hinge plate 20 projecting upwardly from the frame and to which an upper guard section indicated generally at 22 is hingedly connected as at 21. The upper guard section 22 is preferably formed of a pair of spaced parallel sheet metal plates 23 of semi-circular form connected to each other along their curved edges by a spacing strip 24, the flat edge of the upper guard section being adapted to rest upon the beading 18 of the lower guard section, said guard sections co-operating to completely protect the teeth of the saw 10 in a manner as will be apparent from an inspection of Figure 1 of the drawings.

Projecting from one side of the upper guard section 22 is a pin 25 to which the upper end of a link 26 is pivotally attached, the lower end of the link being pivoted as at 27 to one end of a bell-crank 28, said bell-crank being pivoted as at 29 intermediate its ends to a bracket 30 suspended from a cross brace 31 of the stand 5. The opposite end of the bell-crank is formed into a foot treadle 32 having a lug 33 formed at one edge thereof and to which a coiled spring 34 is connected, the other end of the spring being attached to one of the legs 6 to yieldably maintain the foot treadle in a raised position whereby to secure the upper guard section 22 in a lowered position as shown by the full lines in Figure 1.

When it is desired to raise the upper guard section 22 to afford access to a portion of the saw 10, the foot pedal 32 is depressed causing an upward movement of the guard section 22 into a position as shown by the dotted lines in Figure 1 of the drawings.

It is believed the details of construction and manner of operation of the device will be readily understood from the foregoing without further detailed explanation.

Having thus described the invention, what I claim is—

A saw guard for circular saws comprising an oval shaped guard frame, a pair of flat semi-circular screen sections secured to the sides of

said frame and positioned in spaced parallel relation at opposite sides of the saw said screen sections being open at their edge portions, a movable guard section including a pair of flat spaced semi-circular side walls closed at their edge portions
5 and adapted to enclose the remaining portion of the saw and hingedly secured at one edge to said frame, a link depending from said movable guard

section, a bell-crank lever pivotally mounted intermediate its ends, said link being pivotally attached at its lower end to one end of said bell-crank lever, a foot treadle at the opposite end of said bell-crank lever and spring means attached
5 to said bell-crank lever for yieldably maintaining the upper guard section in a lowered position.

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