Aug. 9, 1938. C. E. HARRIS 2,125,919

WORK HOLDER

Filed Aug. 4, 1937

Fig-1-

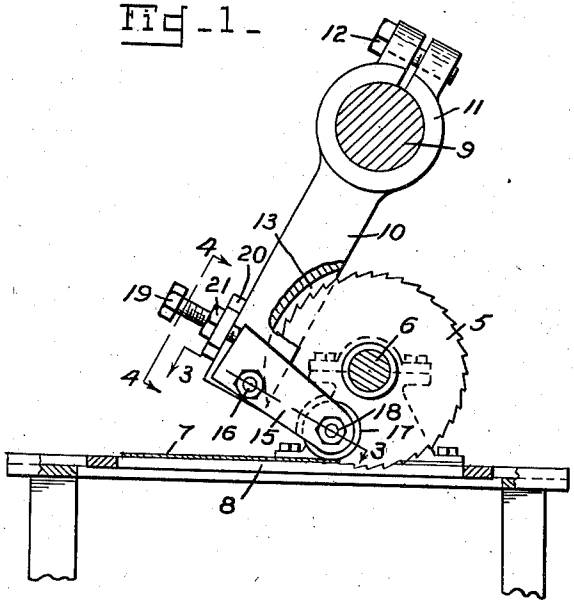



Fig-2-

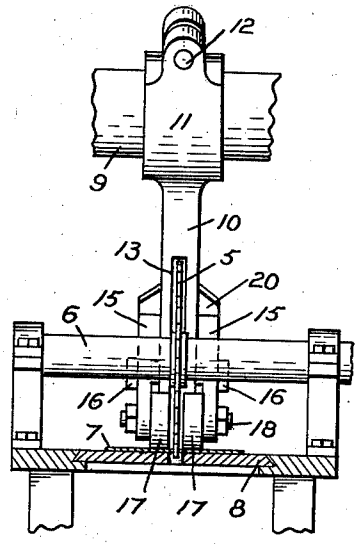



Fig-3-

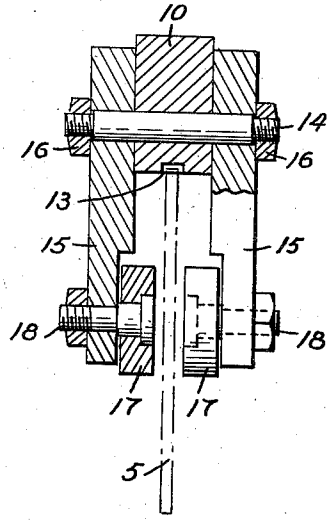
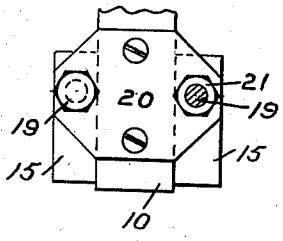



Fig-4-




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# UNITED STATES PATENT OFFICE

2,125,919

## WORK HOLDER

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Application August 4, 1937, Serial No. 157,381

1 Claim. (Cl. 143—157)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

The invention described herein may be manufactured and used by or for the Government for governmental purposes, without the payment to me of any royalty thereon.

This invention relates to a work holder.

The purpose of this invention is to provide a simple, efficient and adjustable device for holding a thin sheet of material adjacent to the point of cut being made by a circular saw while at the same time serving as a guard for the saw.

To these and other ends, the invention consists in the construction, arrangement and combination of elements described hereinafter and pointed out in the claim forming a part of this specification.

A practical embodiment of the invention is illus-trated in the accompanying drawing, wherein:

Fig. 1 is a view in side elevation of the work holder forming the subject of this invention.

Fig. 2 is a view in end elevation.

Figs. 3 and 4 are sectional views on the corresponding lines of Fig. 1.

Referring to the drawing by characters of reference, there is shown a cutter 5 carried by a rotatable shaft 6 and adapted to cut a thin sheet of material 7 which is carried past the cutter on the plate or support 8.

A fixed shaft 9 disposed above the cutter carries an arm 10 which has a split bearing 11 whereby it is securely clamped in position of adjustment by means of a bolt 12. The arm serves as a guard for the cutter and has a slot 13 for receiving a portion of the cutter. A stud bolt 14 mounted in the lower part of the arm carries a pair of levers 15—15 on opposite sides of the arm and the levers are held against removal by means of nuts 16—16. A roller 17 is carried on the lower end of each lever by means of a bolt 18. The rollers are disposed on opposite sides of the cutter 5 and engage the sheet 7 adjacent the point of the cut being made by the cutter.

The levers are held in a position which is substantially at right angles to the arm and which maintains the rollers in engagement with the sheet 7 by means of set screws 19—19. These screws are threaded in a plate 20 fixed to the arm 10 and each screw carries a nut 21 for engaging the plate. The end of each screw engages the upper corner of the corresponding lever and its position of adjustment is so determined that the roller will hold the sheet 7 onto its support and counteract the tendency of the sheet to be raised by the cutter.

I claim:

In combination with a circular cutter, a shaft above the cutter, a guard arm carried by the shaft and disposed tangentially to the cutter, said arm having a slot for receiving a portion of the cutter, a pair of levers pivotally mounted on the lower end of the guard arm and disposed on opposite sides of the cutter, a workholding roller on each lever and positioned adjacent the cutting point of the cutter, and a pair of set screws carried by the arm, each set screw engageable with an end face of one lever above the point of pivotal mounting of the lever and holding the lever approximately perpendicular to the guard arm.

CLARENCE E. HARRIS.