

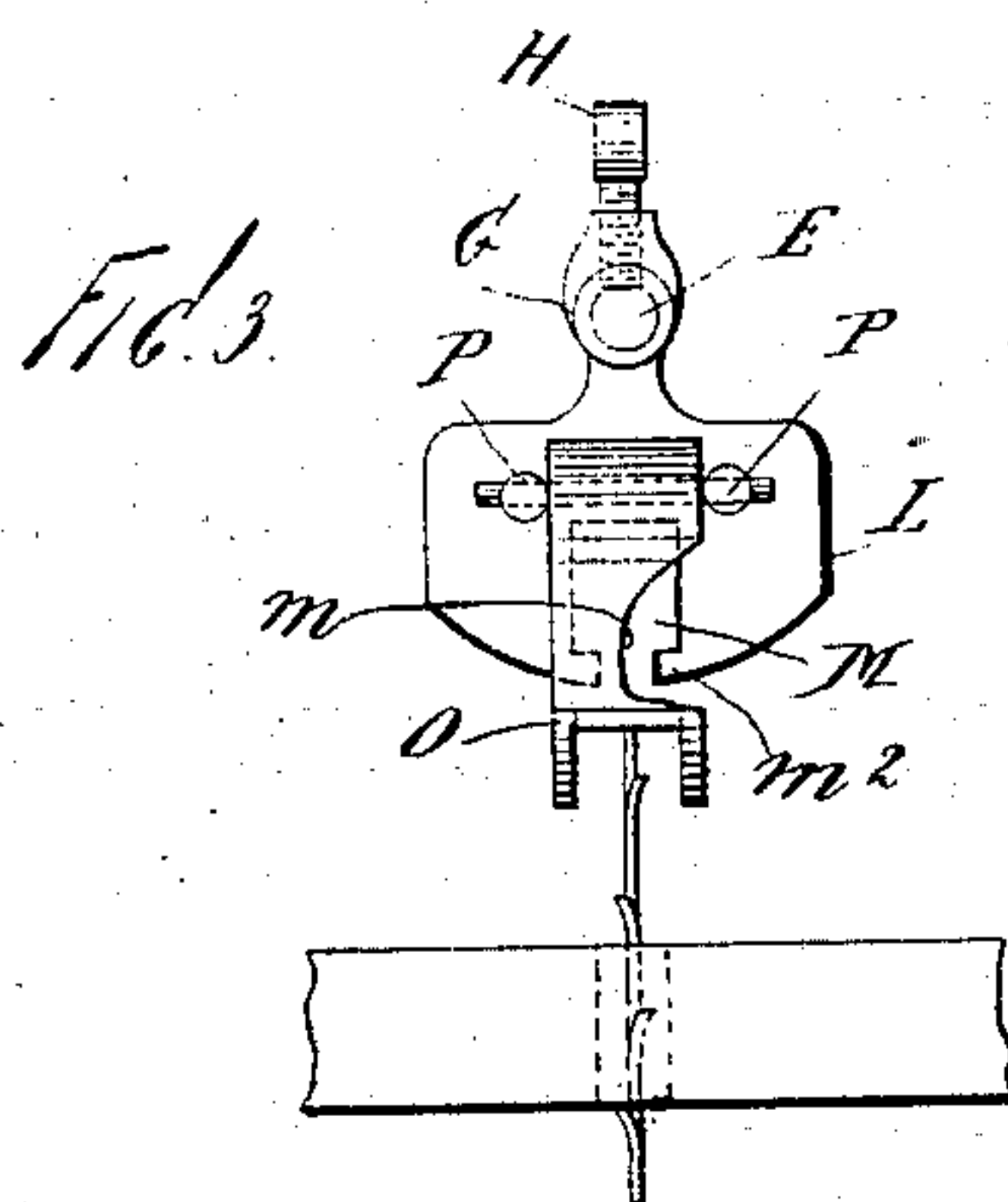
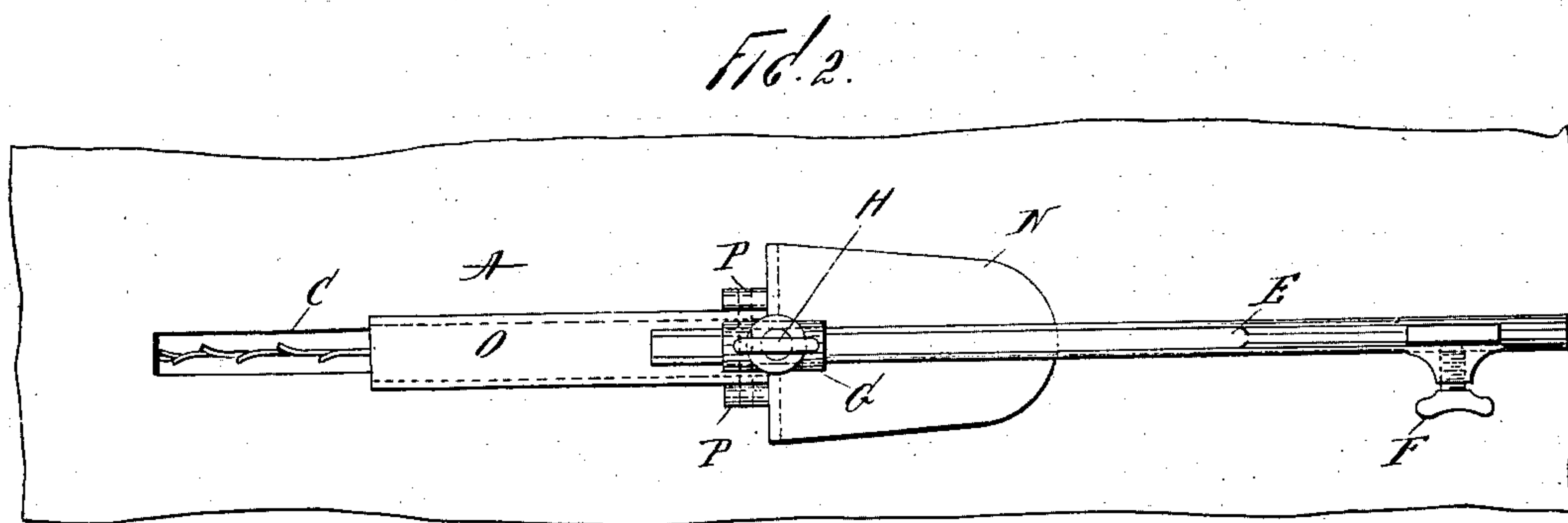
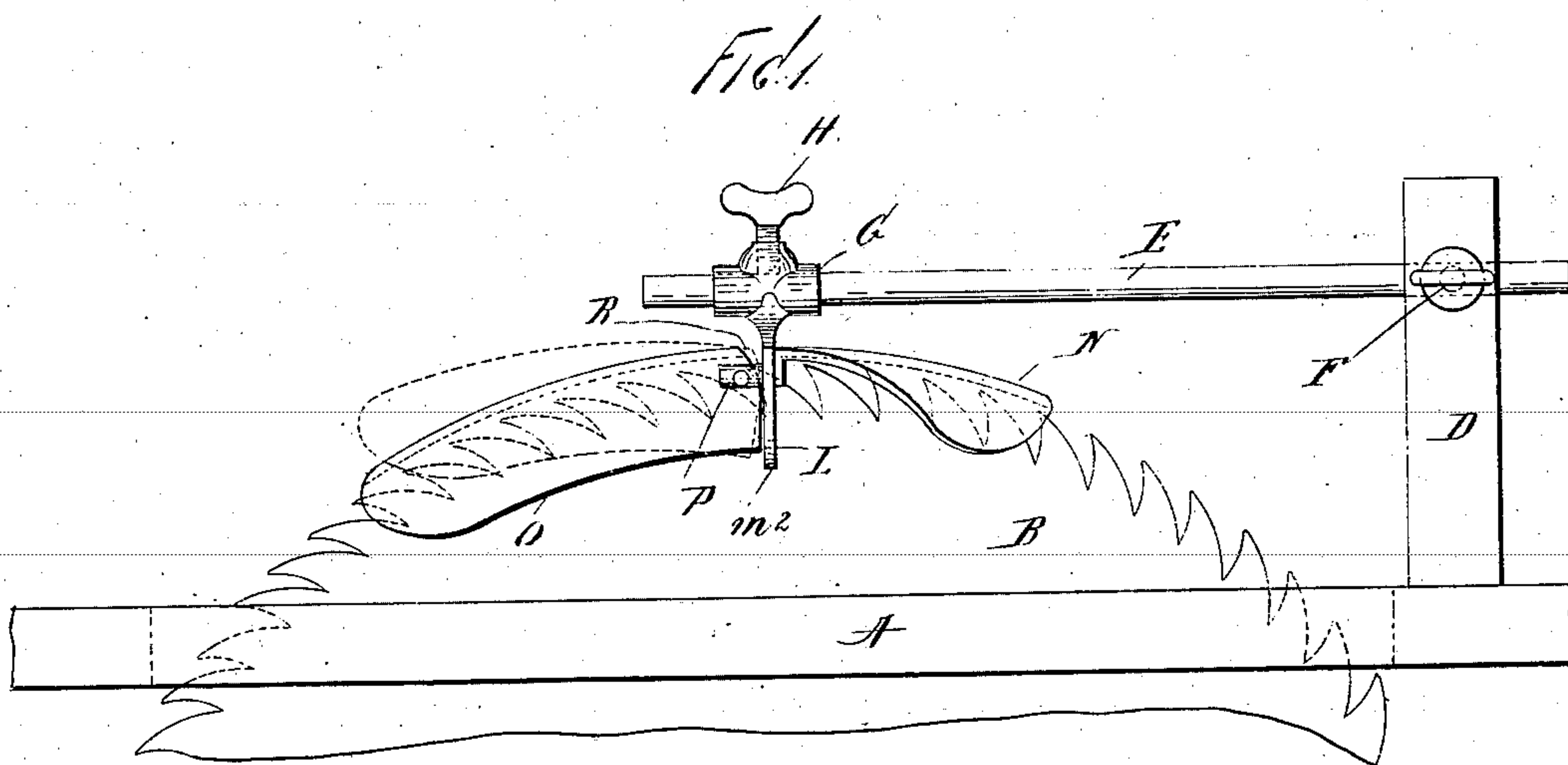
No. 657,520.

Patented Sept. 11, 1900.

T. DAVID.
SAW GUARD.

(Application filed May 18, 1900.)

(No Model.)



WITNESSES

John Quekter,
L. H. Stewart

BY

T. David INVENTOR
Edgar Sales & Co
ATTORNEYS

UNITED STATES PATENT OFFICE.

TONEY DAVID, OF NEW YORK, N. Y.

SAW-GUARD.

SPECIFICATION forming part of Letters Patent No. 657,520, dated September 11, 1900.

Application filed May 18, 1900. Serial No. 17,097. (No model.)

To all whom it may concern:

Be it known that I, TONEY DAVID, a citizen of Germany, residing at New York, (Brooklyn,) in the county of Kings and State of New York, have invented certain new and useful Improvements in Saw-Guards, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to saw-guards; and the object thereof is to provide an improved device of this class which is simple in construction and effective in operation and which is designed for use in connection with circular saws.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which like reference characters denote like parts in the several views, and in which—

Figure 1 is a side elevation showing my improved saw-guard and the method of its operation; Fig. 2, a plan view, and Fig. 3 a front view.

In the drawings forming part of this specification I have shown at A a base or table of a circular-saw support, and at B an ordinary circular saw. The base or table is provided at C with a slot in which the saw works, and in the practice of my invention I secure to the said base or table, rearwardly of said slot, an upright D, with which is connected a horizontally and vertically adjustable bar or support E, through which said upright D may be passed, if desired, as shown in Fig. 2, or said bar or support may be made adjustable on said upright in any desired manner, and said bar or support E is also preferably connected with said upright by a set-screw F. A tubular head G or other guard-support is mounted on the bar E and is provided with a set-screw H, whereby said tubular head or guard support is made longitudinally adjustable on said bar.

To the lower side of the head G is secured a cross guard-plate L, which is provided with a central vertical opening M, which opens downwardly by means of a slot or opening *m*, and through which the saw B passes. The central vertical opening M is preferably much larger in cross-section than the opening at *m* at the bottom thereof, and secured to the rear

side of said plate is a backwardly and downwardly inclined guard-piece N, which is preferably trough-shaped in cross-section. I may also employ a forwardly-directed and downwardly-inclined guard O, which is trough-shaped in cross-section and pivoted to shoulders or projections P, connected with the plate L, as clearly shown, and the free end of the guard O is capable of moving vertically, as will be readily understood, and is normally held in the position shown in full lines in Fig. 1, a notch or recess being formed in the upper edge of the end thereof, adjacent to the plate L, as shown at R, so as to permit of the vertical movement of the free end thereof.

This device is designed particularly for use in connection with saws for doing boxwork or other small or fine work, and in practice the operator stands in front of the saw, so as to guide the work, that portion of the guard shown at O being also projected in the same direction. It will be seen that the guard consists of three separate parts—the transverse plate L, the backwardly-directed portion N, and the forwardly-directed portion O—and these parts are connected with the lower end of the head G in the manner described. The part N is designed to prevent sawdust and other small portions of the material being sawed from being thrown upwardly and forwardly from the back portion of the saw, while the central portion L is designed to prevent similar particles or substances from being thrown forward, and the forward portion O serves for a similar purpose and also prevents sawdust and similar material from being thrown into the eyes of the operator, and the object of pivoting the forward portion O of the guard is to provide means whereby the material being sawed may be raised and adjusted, it being understood that there are usually several thickness placed together in operating a saw of this class for the purpose described.

The inwardly-directed lugs or projections *m*² at the sides of the slot or opening *m* in the bottom of the plate L are within the line of the teeth of the saw as the saw revolves, and the larger opening M in the plate L above said lugs or projections affords space for the teeth and permits of the free operation of the saw; but the slot or opening *m* is large enough

to permit of the plate L being passed downwardly over the edge of the saw in placing the guard in position. It will also be apparent that the guard may be raised and lowered or vertically adjusted, as desired, by means of the bar E, and the guard proper is also longitudinally adjustable on said bar, and the entire device is simple in construction and operation and well adapted to accomplish the result for which it is intended.

Having fully described my invention, I claim as new and desire to secure by Letters Patent—

1. A vertically-adjustable saw-guard consisting of a transverse rigid plate having a vertical opening centrally thereof and opening downwardly and through which the saw passes, a backwardly and downwardly inclined member, and a forwardly and downwardly inclined member which is pivotally connected with said plate and adapted to move vertically, substantially as shown and described.

2. A vertically-adjustable saw-guard consisting of a transverse rigid plate having a vertical opening centrally thereof and opening downwardly and through which the saw passes, a backwardly and downwardly inclined member, and a forwardly and downwardly inclined member which is pivotally connected with said plate and adapted to move vertically, said last two members being trough-shaped in cross-section, substantially as shown and described.

3. In a device of the class described, an upright or standard, a vertically-adjustable bar or support connected therewith, a tubular head or guard support mounted on said bar and longitudinally adjustable thereon, and a

saw-guard connected with said tubular head consisting of a transverse central plate having a vertical central opening through which the saw passes, a backwardly-directed member, and a forwardly-directed pivoted member, substantially as shown and described.

4. A saw-guard consisting of a stationary upright, a horizontal support vertically adjustable thereon, a guard-support longitudinally adjustable on said first-named support, and a guard connected with the lower side of said guard-support, and consisting of a transverse plate having a central vertical opening which opens downwardly, and through which the saw passes, a stationary member secured to said plate and projecting backwardly over the saw, and a forwardly-directed member pivotally connected with said plate and projecting over the saw, said last-named member being adapted to move vertically at the free end thereof, substantially as shown and described.

5. A saw-guard consisting of a transverse rigid plate having a vertical opening centrally thereof and opening downwardly and through which the saw passes, a backwardly and downwardly inclined member, and a forwardly and downwardly inclined member which is pivotally connected with said plate and adapted to move vertically, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 16th day of May, 1900.

TONY DAVID.

Witnesses:

ALEXANDER ZINGER,
ADOLPH BLENNAR.