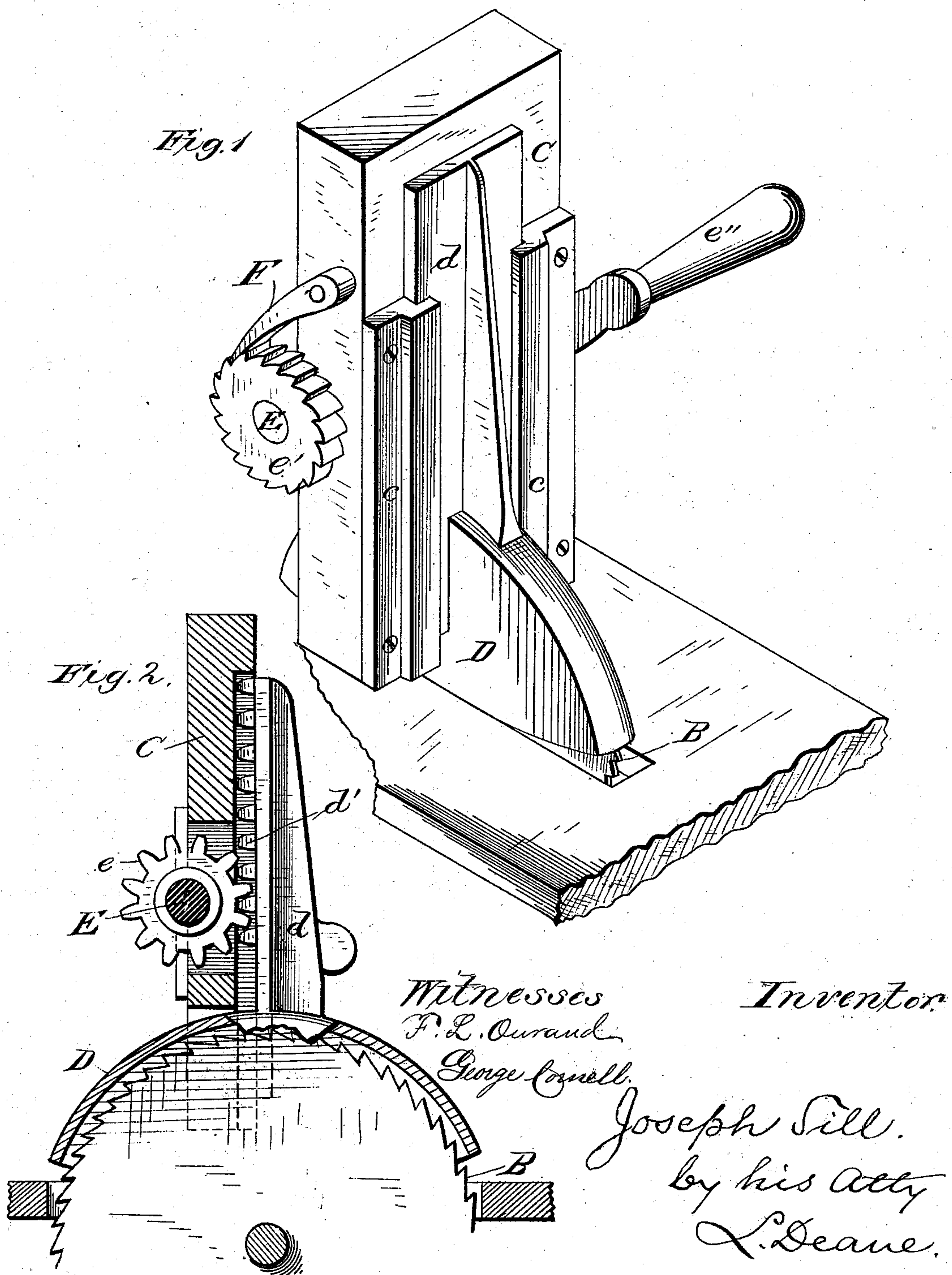


(No Model.)

J. SILL.
CIRCULAR SAW GUARD.

No. 252,269.

Patented Jan. 10, 1882.



UNITED STATES PATENT OFFICE.

JOSEPH SILL, OF PICTURE ROCKS, PENNSYLVANIA.

CIRCULAR-SAW GUARD.

SPECIFICATION forming part of Letters Patent No. 252,269, dated January 10, 1882.

Application filed November 22, 1881. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH SILL, a citizen of the United States, residing at Picture Rocks, in the county of Lycoming and State of Pennsylvania, have invented certain new and useful Improvements in Circular-Saw Guards; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 is a perspective view of this device. Fig. 2 is a vertical central section of Fig. 1.

This invention belongs to that class of devices which are designed to cover or guard a circular saw, and not only protect the operator from harm, but also prevent the throwing off of pieces of wood, slivers, &c., while sawing is going on.

The invention consists in the detail of the means used to adjust and fix the guard in any desired vertical position, all as will now be fully explained.

In the drawings, A denotes any ordinary table or frame in which the saw B, properly hung, works. Above this table is placed, in any desired manner, the beam C. In the guide-arm *c*, attached to this beam, the shaft or stem *d* of the saw-shield D may be worked up or down by means of the cog-wheel *e*, near the middle of shaft E, which shaft has proper bearings or supports on the beam C, and acts upon the rack *d'* on the back of the shield-stem *d*. It

can be operated by handle *e''*. By this means the shield can be raised or lowered at will to any desired position above the table or frame A, and in any suitable relation to the saw which revolves inside of it. The shield can be fixed and held at any point by means of the pawl F, which acts on the cog-wheel *e'* on the outer end of the shaft E. If desired, this pawl may have a spring attached to it to insure its engaging with the teeth of the wheel *e*. The shield may be a semi-hemispherical case open at the base, as now shown, or of any suitable shape or construction.

This device, as thus made, can be operated very easily to set it either up or down, while it will be securely held at any point desired.

I am aware that heretofore several devices having the same general ends in view as I have explained have been made and used; but none of them are made or operated as I have above described, or in as simple and easy manner.

Having thus described my invention, what I consider new, and desire to secure by Letters Patent, is--

The saw guard or shield D, having the rack *d'* on its stem *d*, combined with beam C, shaft E, cog-wheels *e* and *e'*, and pawl F, substantially in the manner and for the purposes set forth.

In testimony whereof I affix my signature in presence of two witnesses.

JOSEPH SILL.

Witnesses:

THOMAS H. LLOYD,
WM. C. KING.