

No. 661,106.

G. E. POOLER.
SAW GUIDE.

Patented Nov. 6, 1900.

(Application filed Aug. 22, 1900.)

(No Model.)

Fig. 1.

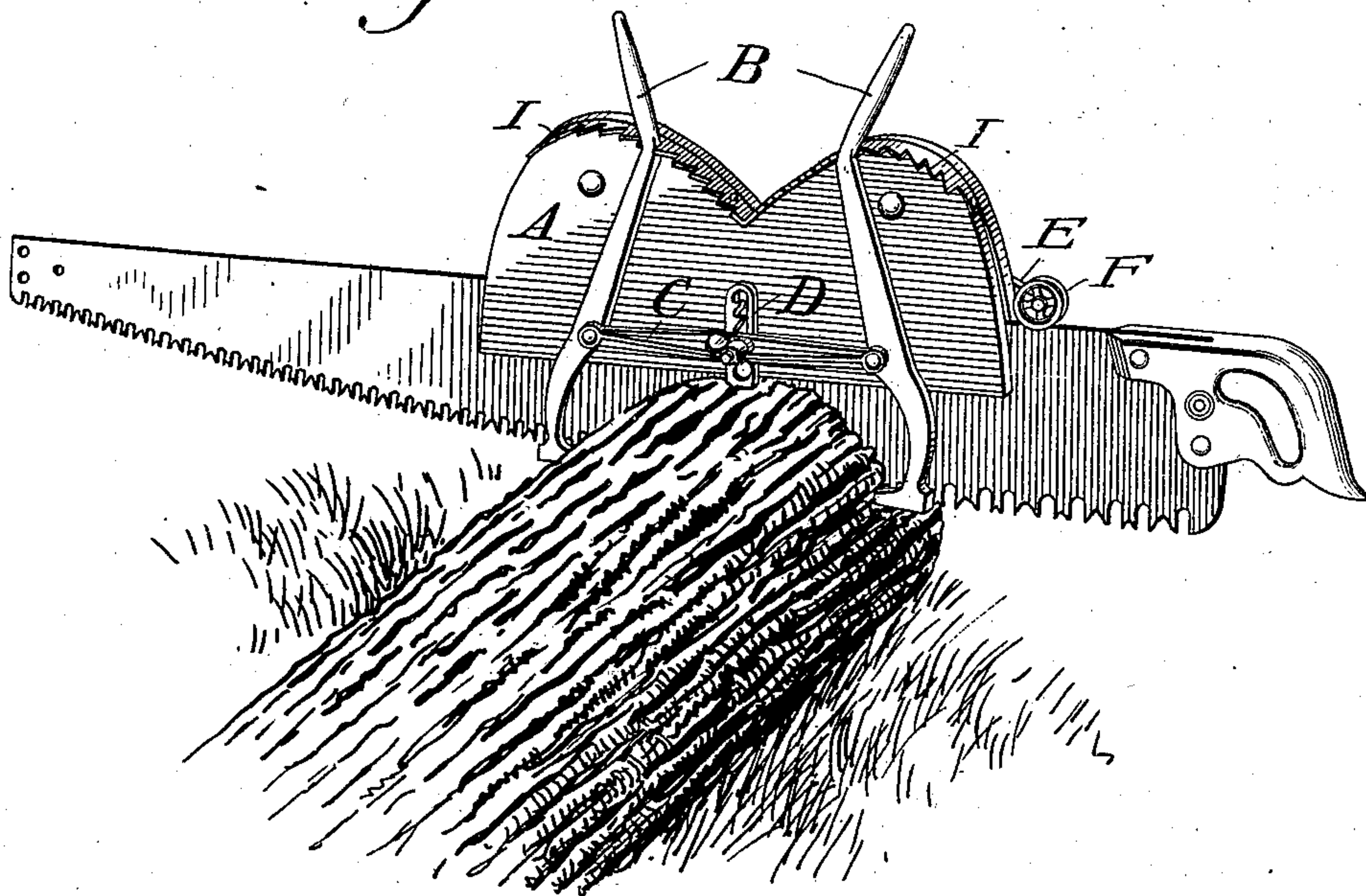
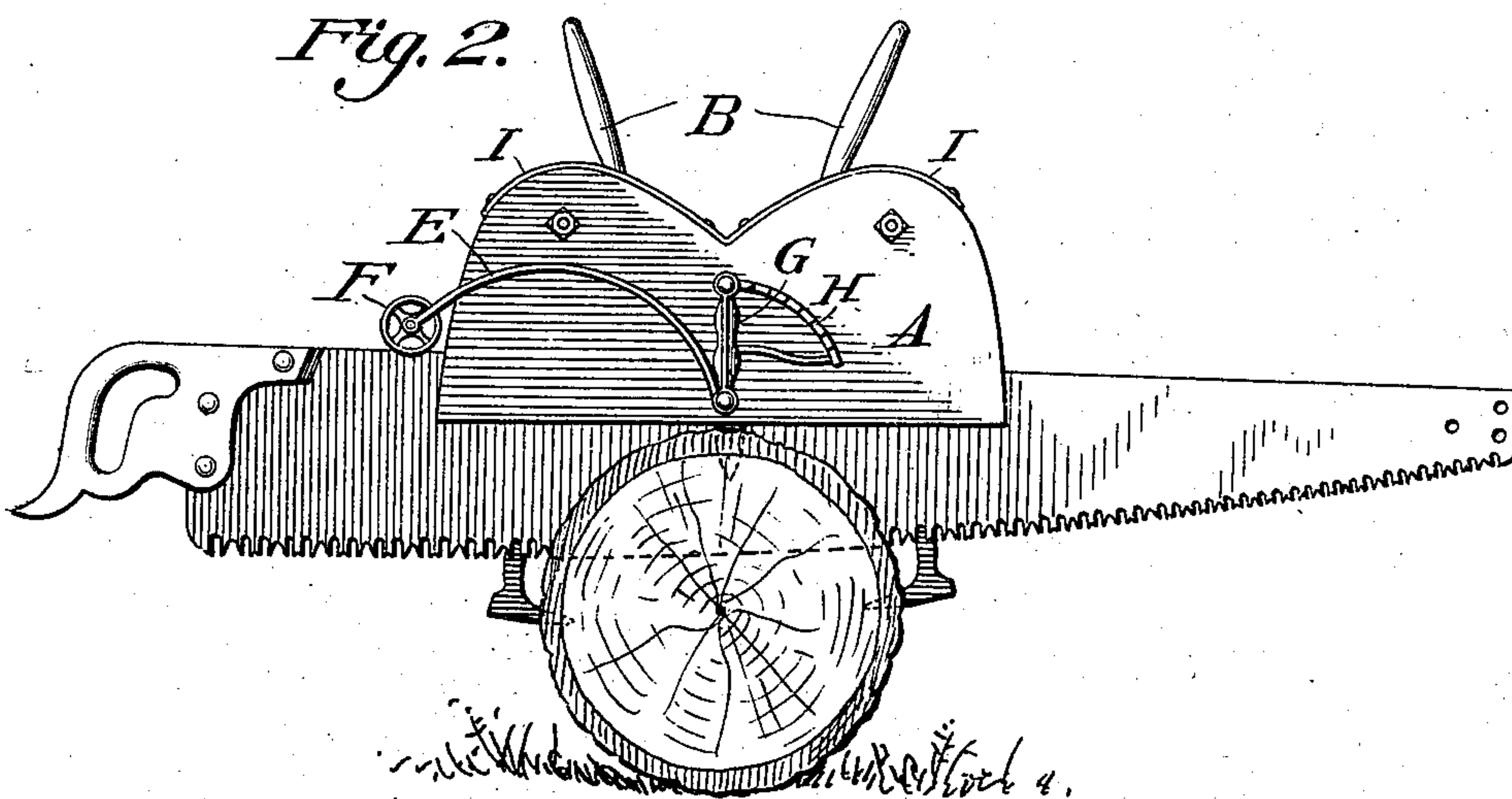


Fig. 2.



Witnesses,

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GEORGE E. POOLER, OF THREE OAKS, MICHIGAN.

SAW-GUIDE.

SPECIFICATION forming part of Letters Patent No. 661,106, dated November 6, 1900.

Application filed August 22, 1900. Serial No. 27,744. (No model.)

To all whom it may concern:

Be it known that I, GEORGE E. POOLER, a citizen of the United States, residing at Three Oaks, in the county of Berrien and State of Michigan, have invented new and useful Improvements in Saw-Guides; and I do hereby declare the following to be a full, clear, and exact description of my invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to that class of saw-guides which may be used in connection with large crosscut-saws known to manufacturers as "one-man" crosscut-saws. Its purpose is to form a guide and support for the saw in entering the tree, log, post, or pile and supply a means of pressure on the back of the blade which will force the teeth of the saw more firmly against the wood, thus holding the blade to a desired line and increasing the cutting rate.

The body of the guide is formed of two pieces of material, shaped as shown in the drawing, fastened together at the rounded edges by two bolts and separated slightly by washers between the pieces of material which form the body. Bolted to one of these pieces, with heads of bolts sunken below the plane of its surface, are two similar levers. One end of each lever is pointed and intended to grapple the wood by the action of the levers or by being driven. The other end of the lever is handled and intended as a leverage to oscillate the pointed end. At a point on the lever near the handle the edge is turned down or inwardly to engage with a ratchet, which is fastened to the rounded and shaped edge of the same piece to which the levers are bolted. The object of this ratchet is to retain the points in the position in which they may be placed. Said rounded edge and ratchet are shaped to the arc described by inturned points or ratchet-catch of the levers. There is also a connecting-bar between the bolted points of oscillation of these levers. There is also a spur held in position by a bolt passing through the body-piece and the connecting-bar. This spur is adjustable and fastened in position by the bolt and a wing-nut. This spur is intended to be driven into the wood. The levers and the spur furnish three points of engagement for fastening firmly to the tree or wood desired to be cut. On the other side of the guide as formed is an arched spring-arm pivoted by a bolt and having an extended

point for engaging a ratchet. Journaled to the end of the spring-arm is a wheel. The former-mentioned point and ratchet are provided so that tension may be put upon the spring and the wheel made to ride upon the back of the saw with pressure as the operator may wish. The pivotal line of journal of wheel is at right angles to the plane of space provided for the reciprocation of the saw and the center of the wheel in line with said plane. There is a connecting-bar between the point of oscillation of the spring and its ratchet.

The operation will be readily understood. The machine is placed with force against the tree, log, post, or pile desired to be cut, causing the spur to pierce in. The handles are then moved over the ratchet until the points of the levers are firmly engaged with the wood. The machine is thus fastened rigidly in position. The saw is then inserted in the space provided for its reciprocation and actuated by the operator in the usual manner of using a saw. The wheel with the pressure of the spring is forwarded by the hand of the operator and held in position by the extending point of the spring engaging with the ratchet.

In the drawing, A is the body of the guide; B, the levers; C, the connecting-bar; D, the spur; E, the spring-arm; F, the wheel; G, connecting-bar of spring and ratchet; H, the ratchet for spring, and I the ratchet for engaging levers.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination in a saw-guide, of the two pieces, bolted together forming the body of the guide, with the pointed pivoted levers journaled thereto, the ratchet for engaging the levers, the connecting-bar between the points of oscillation of levers, with the adjustable pointed spur which with the levers forms three points of engagement, substantially as set forth.

2. The body of the guide, with the arched spring-arm pivoted thereto, the wheel journaled to end of spring-arm, the end of spring extended for engaging a ratchet, the ratchet for engaging the spring, and the connecting-bar between points of oscillation of spring and ratchet, the whole combined substantially as set forth.

GEORGE E. POOLER.

Witnesses:

C. G. STEBBINS,
THOMAS E. DAVIDSON.