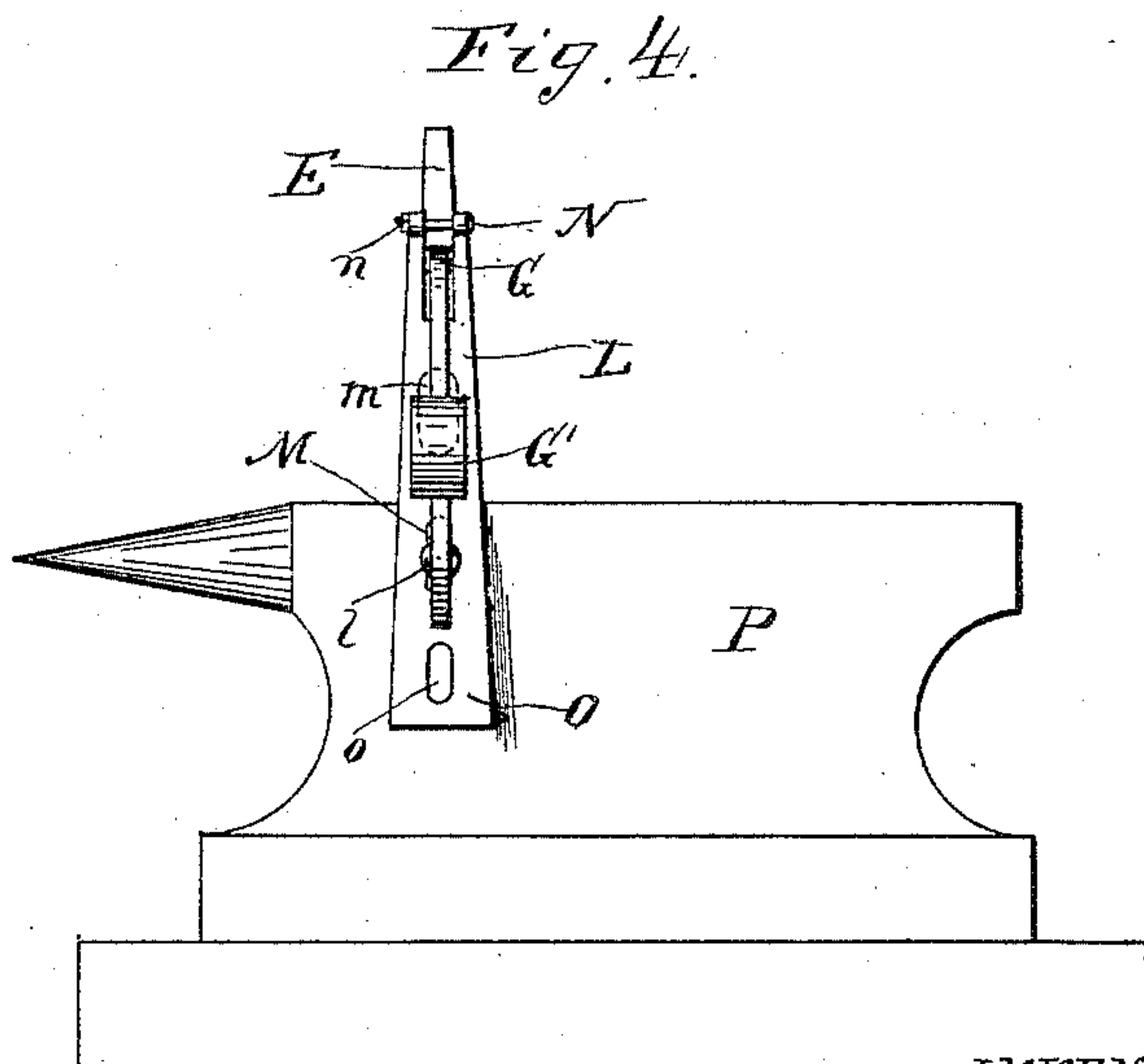
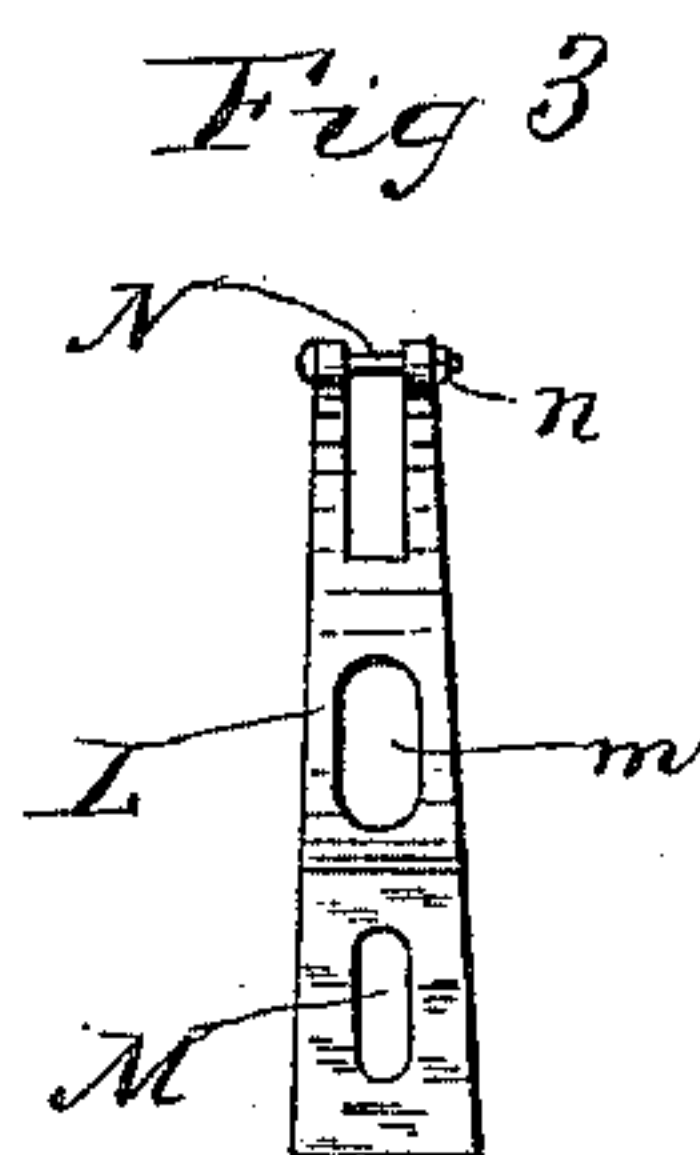
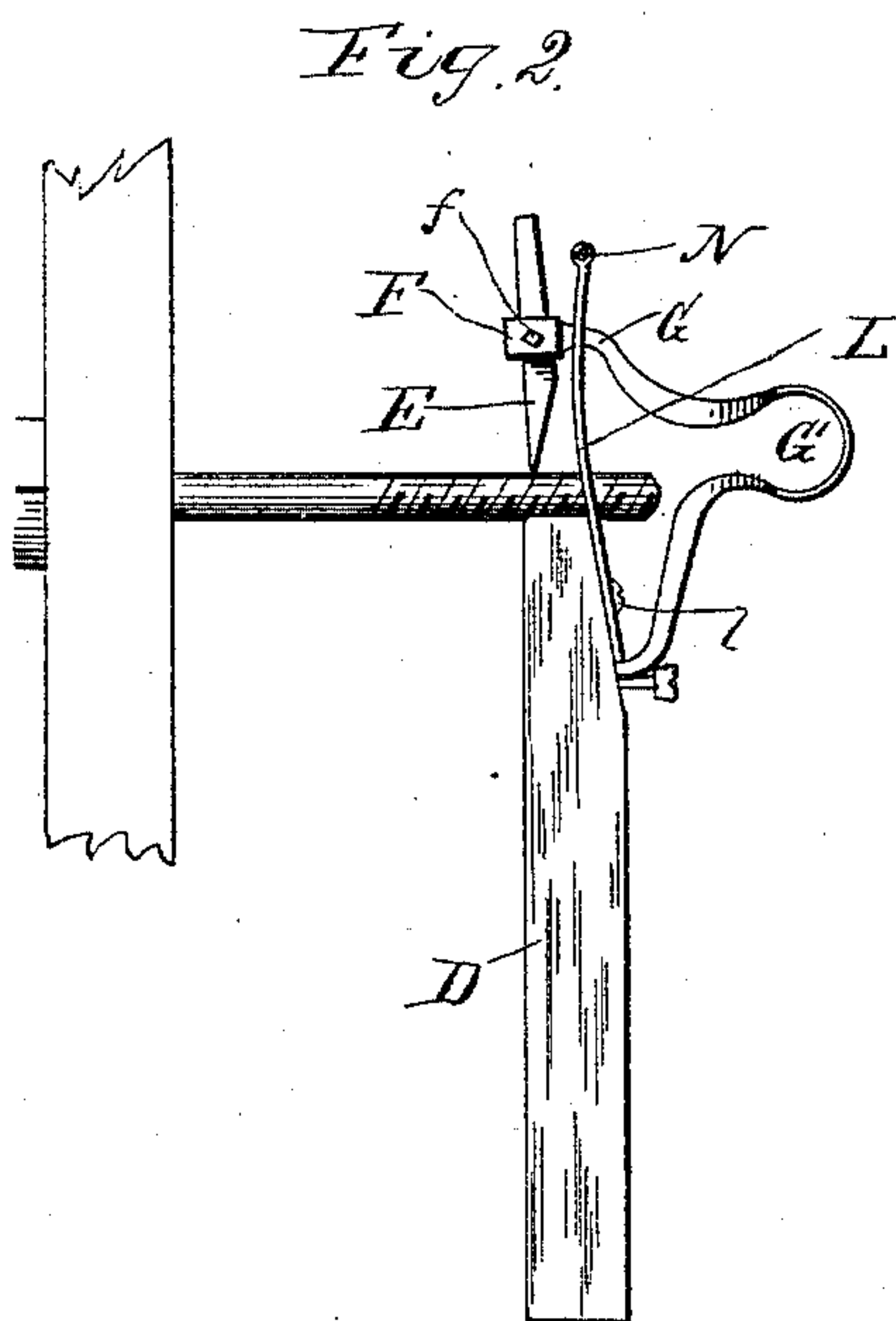
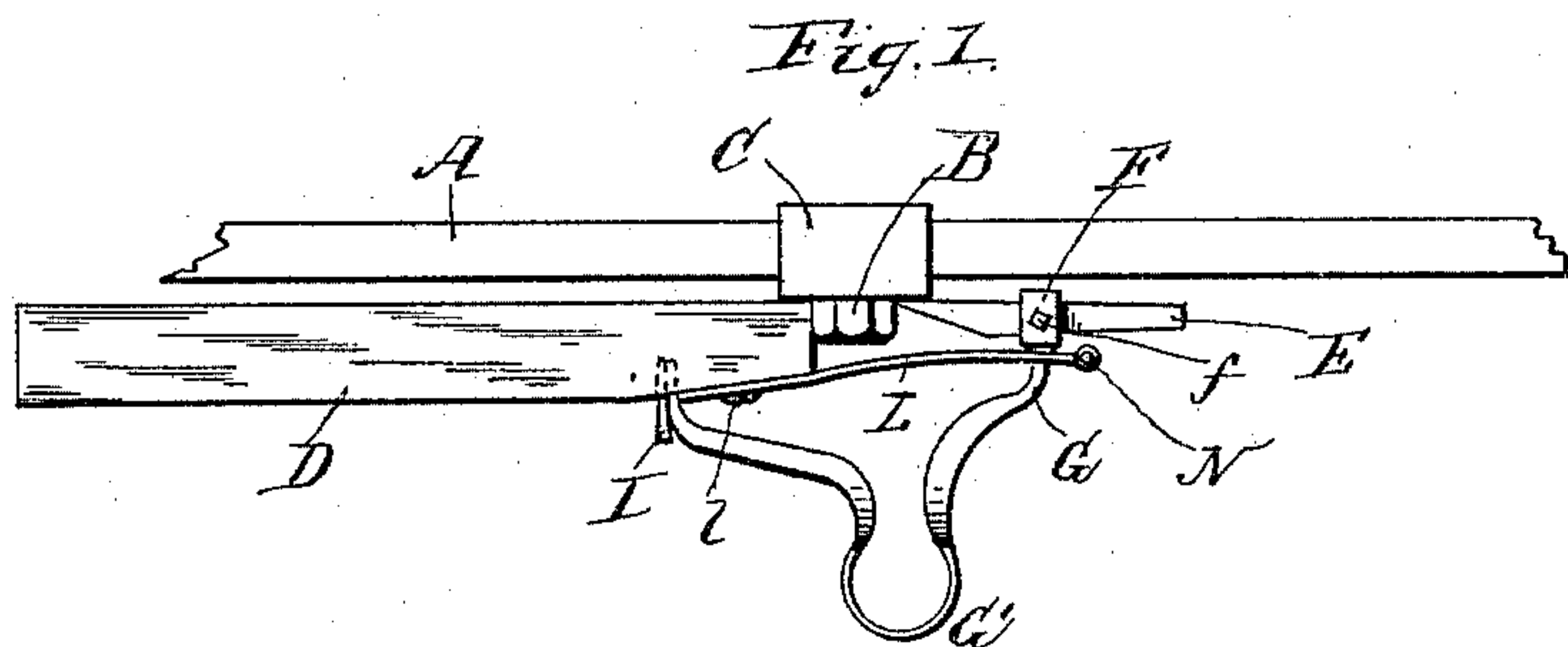


(No Model.)

J. C. STOKES.
BOLT OR ROD CUTTER.

No. 444,924.

Patented Jan. 20, 1891.



WITNESSES

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JOSEPH C. STOKES, OF CONDIT, OHIO.

BOLT OR ROD CUTTER.

SPECIFICATION forming part of Letters Patent No. 444,924, dated January 20, 1891.

Application filed October 22, 1890. Serial No. 368,902. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH C. STOKES, a citizen of the United States, residing at Condit, in the county of Delaware and State of Ohio, have invented certain new and useful Improvements in Bolt or Rod Cutters, of which the following is a specification.

This invention relates to metal-working tools, and pertains particularly to rod or bolt cutters.

The object of the invention is to provide a tool for cutting off bolt-heads or bars on carriages and wagons, which can be operated by one person in any position so as to cut any size of rod or bolt close up to the head.

A further object of the invention is to provide a smith's tool or cutter which can be operated without the usual lever or smith's helper or assistant, as is customary in using the ordinary devil and chisel, which is necessary in cutting large bolts or rods.

The invention consists in the novel arrangement and construction of parts, as will be hereinafter fully described, and set forth in the claims.

In the accompanying drawings, showing a part of this invention, Figure 1 is a side elevation showing the tool in position to cut off a bolt-head from part of a wagon. Fig. 2 is a side elevation showing the screw-threaded end of a bolt in position to be cut. Fig. 3 is a detached view of the tool-guide. Fig. 4 is a modified form of constructing the tool, showing it attached to an anvil, the spring and guide formed all in one piece.

The same letters of reference denote the same parts throughout the several figures.

A denotes part of the running-gear of a carriage or wagon; B, the burr or head of a bolt securing the iron C to the part A. The piece D is what is familiarly known as the smith's "devil" and is made of wrought-iron, so as not to break or dull the edge of the chisel E when in operation. The chisel E is suspended above the face of the devil D in the holder F, formed on the free end G of the spring G', the other end H of the said spring being adjustably secured in the devil D by means of a wedge I or a set-screw having a tapering head. The spring is arranged to be adjustable, so that the cutting-edge of the

chisel may be located nearer to or farther from the face edge of the devil D—that is, when a wedge is used, as shown in the drawings, to draw the chisel E in from the outer face edge of the devil D the wedge has simply to be driven farther into the devil, and to throw the chisel out the wedge has to be loosened a little.

L denotes the tool-guide adjustably attached to the same side of the devil D as the spring G. It is rendered adjustable by the set-screw l, which passes through the slot M and into the devil D just above the wedge attachment of the spring. This guide may be raised or lowered, according to the size of the bolt or rod to be cut, by simply loosening the set-screw l; but this adjustment is not necessary except in very large rods or bars.

The tool-guide L has an aperture m and a U-shaped top opening. This aperture m is provided to accommodate the ends of long bolts or rods, which when being cut extend through the said aperture m. The U-shaped opening is arranged to receive the end G' of the spring G', which carries the chisel-holder F, the said end of the spring G' being kept in the U-shaped opening by a cross-pin N, extending from one side of the said opening to the other, and is provided with a nut n, as clearly shown by Fig. 3.

The cutting-chisel shown has a straight outer face, the bevel being only on the inner side, so as to leave the bolt or rod with a square face after cutting.

The holder F is arranged to receive any size or form of chisel, and is provided with a set-screw f, so that the chisel may be moved or turned with its cutting straight face to the side of the devil.

In the modification shown by Fig. 4 the spring G' and guide L are formed all in one piece, with an extension O of the guide L below the fixed end of the spring G'. This extension has a slot o to receive a set-screw, when necessary to more firmly secure the guide L and spring G' to the anvil P. Although the device is made in one piece, shown as attached to an anvil for shop use, it may be as readily attached to the piece D.

I do not wish to be understood as limiting myself to the quality of metal used in the

manufacture of the device hereinbefore described or to form the spring used, as I desire to reserve to myself the right to use any form of spring found to be most convenient and durable.

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

1. In a bolt or rod cutter, the adjustable spring, the devil D, and the cutting-chisel, the free end of the said spring having a holder in which is secured the said chisel, and the other end of the spring being secured in the said devil, substantially as shown and described, and for the purpose set forth.

2. In a bolt or rod cutter, the adjustable spring and chisel-holder formed in one piece, the devil D, having one end of the said spring secured thereto and the other end left free, so as to suspend a chisel or like tool over the face of the said devil, substantially as shown and described.

3. An adjustable guide for bolt or rod cutters, substantially as shown and described, consisting of the guide having the slot M, the aperture *m*, the U-shaped opening, and the cross-pin connecting the sides of the said opening, for the purpose described.

4. In a rod or bolt cutter, the adjustable spring having the tool-holder, and the devil D, having one end of the said spring secured thereto, in combination with the adjustable guide having the U-shaped opening, wherein the free end of the said spring is operated, substantially as shown and described.

In witness whereof I hereunto set my hand in presence of two witnesses.

JOSEPH C. STOKES.

Witnesses:

M. D. CRING,

D. J. ALBAUGH.