

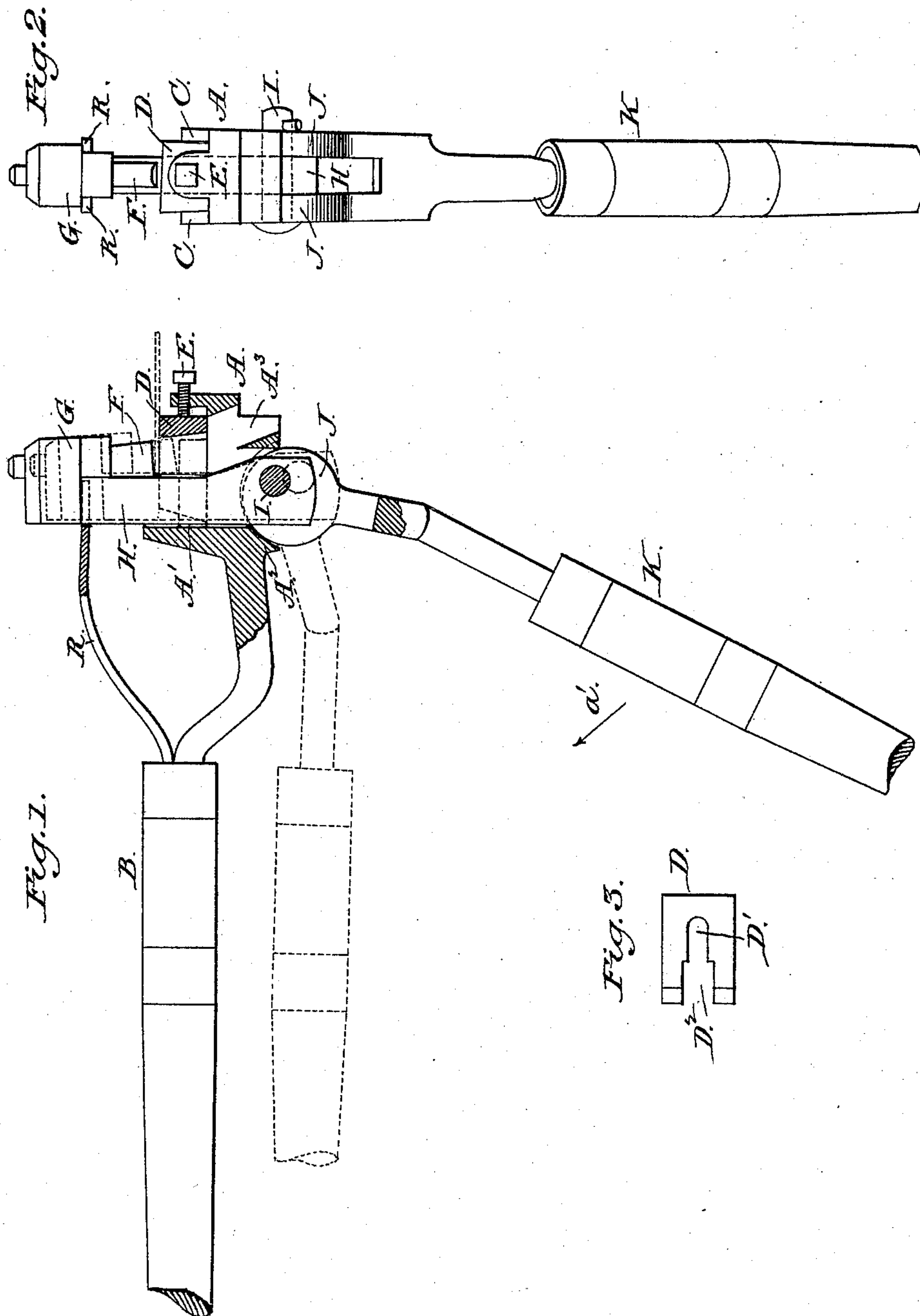
(No Model.)

L. J. GRANT.

SAW GUMMER.

No. 370,536.

Patented Sept. 27, 1887.



WITNESSES:

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UNITED STATES PATENT OFFICE.

LEWIS J. GRANT, OF LAMONT, MICHIGAN.

SAW-GUMMER.

SPECIFICATION forming part of Letters Patent No. 370,536, dated September 27, 1887.

Application filed April 18, 1887. Serial No. 235,230. (No model.)

To all whom it may concern:

Be it known that I, LEWIS J. GRANT, of Lamont, in the county of Ottawa and State of Michigan, have invented a new and Improved Saw-Gummer, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved saw-gummer which is simple and durable in construction and very effective in operation.

The invention consists in the construction and arrangement of various parts and details and combinations of the same, as will be fully described hereinafter, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation, partly in section, of my improvement. Fig. 2 is a front elevation of the same. Fig. 3 is plan view of the die.

The die-frame A is connected with a handle, B, and is provided on top with the fixed guides C, between which is placed to slide the die D, held in position by set-screw E, screwing against the die and held to turn in an extension in front of the die-frame A. The die D has a slot, D', forming on top of the die a cutting-edge, which operates in conjunction with the cutting-edge of the punch F, secured in any suitable manner vertically to the punch-block G, having the downwardly-extending arm H, guided partly in the slot D' of the die D and partly in an aperture, A', formed in the die-frame A.

The lower end of the arm H is pivoted on the pin I, secured eccentrically in the disks J, rigidly connected with the handle K, and having their bearings in a circular recess, A², formed on the under side of the die-frame A. The punch-block G is secured by the forked end of the spring R, secured to the handle B.

The operation is as follows: When the saw-gummer is in the normal position, as shown in Fig. 1, then the lower cutting-edge of the punch F is held above the cutting-edge on top of the die D by the action of the spring R, holding the punch-block G in its uppermost position. The operator now places the saw to be gummed upon the die D, as shown in

dotted lines in Fig. 1. The operator supports the handle B with one hand, and with his other hand takes hold of the handle K and moves the same upward in the direction of the arrow a' to the position shown in dotted lines in Fig. 1, whereby the punch-block G and its punch F are moved downward by the action of the eccentric pin I and the disks J, which turn with the movement of the handle K in their bearings A² in the die-frame A. This downward movement of the punch F cuts a part of the saw by the cutting-edges of said punch and the cutting-edge of the slot D'. The piece cut out of the saw drops into and through an aperture, A³, formed in the die-frame A and leading to the front.

It will be seen that by my improved device the punch F is drawn upon the die D, instead of the die being pushed, as is usually done, thus enabling me to construct the several parts of the saw-gummer stronger and more durable.

It will also be seen that the saw-gummer is very handy and always ready for immediate use.

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

1. In a saw-gummer, the combination of a die-frame provided with a handle, a spring secured to the handle and supporting a punch-block, and means for depressing the punch-block against the action of the said spring, substantially as herein shown and described.

2. In a saw-gummer, the combination of a die-frame provided with a handle, a spring secured to the handle and carrying a punch-block, a handle provided with a head having bearings on the under side of the die-frame, and an arm secured to the die-block and having its lower end connected to a pin secured eccentrically in the said head, substantially as herein shown and described.

3. In a saw-gummer, a die-frame having guides, a die held in said guides, and a set-screw for holding said die in position, in combination with a punch operating in conjunction with said die, a punch-block supporting said punch, a spring for supporting said punch-block, secured to the handle of the die-frame, an arm extending from said punch-block and held to slide vertically in an aperture in said die-frame, a pin pivotally connected

