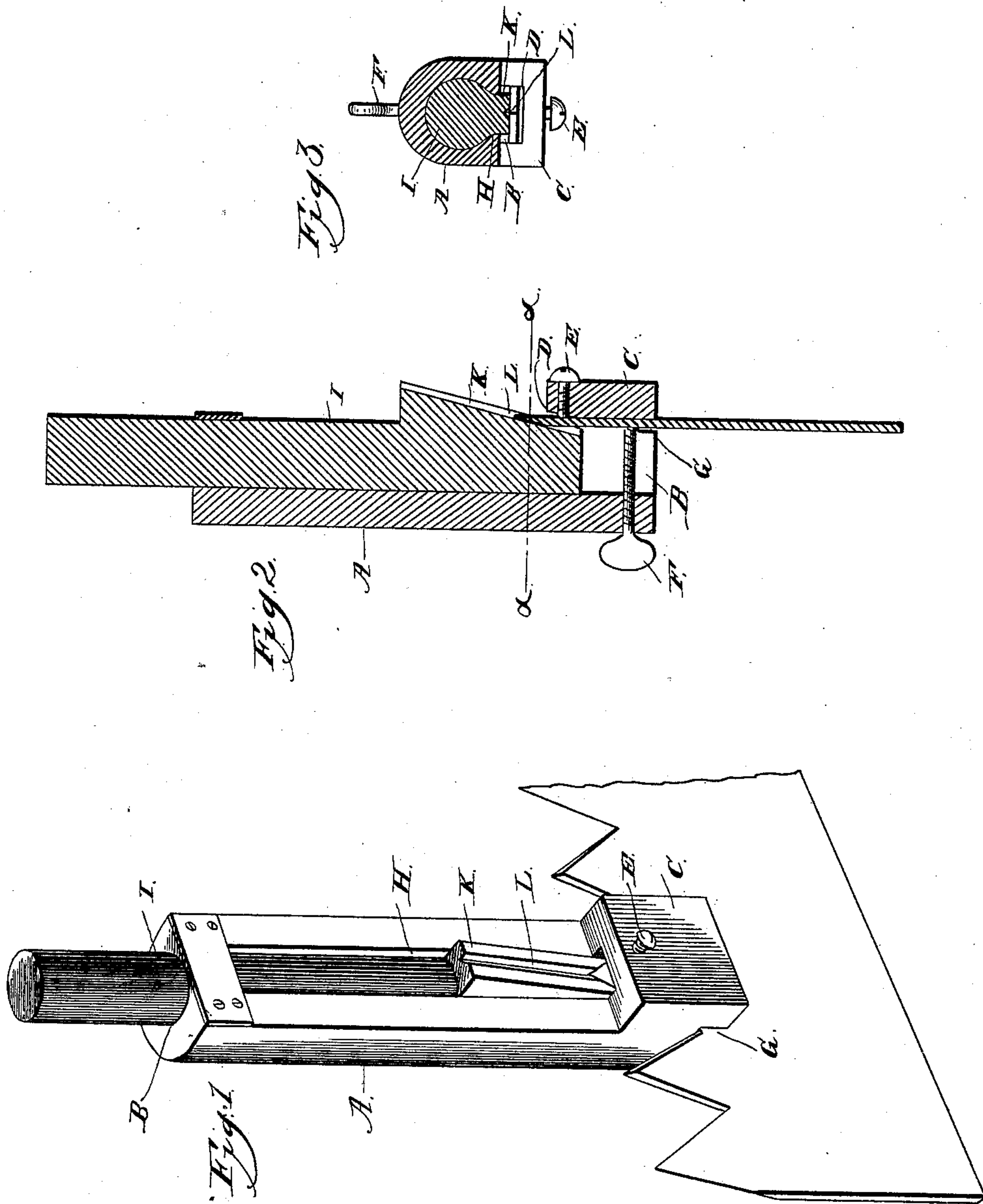


(No Model.)

J. M. FLOWER.
SAW SETTING DEVICE.

No. 361,278.

Patented Apr. 19, 1887.



Witnesses

Geo. Thorpe,

Geo. Ganner

Inventor
James M. Flower

By his Attorneys

C. A. Howard

UNITED STATES PATENT OFFICE.

JAMES M. FLOWER, OF WALNUT RIDGE, ARKANSAS.

SAW-SETTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 361,278, dated April 19, 1887.

Application filed January 25, 1887. Serial No. 225,467. (No model.)

To all whom it may concern:

Be it known that I, JAMES M. FLOWER, a citizen of the United States, residing at Walnut Ridge, in the county of Lawrence and State of Arkansas, have invented a new and useful Improvement in Saw Sets and Swages, of which the following is a specification.

My invention relates to an improvement in saw-sets; and it consists in the peculiar construction and combination of devices, that will be more fully set forth hereinafter, and particularly pointed out in the claims.

In the drawings, Figure 1 is a perspective view of a saw-set embodying my improvement, showing the manner of attaching the same to a saw. Fig. 2 is a vertical longitudinal sectional view of the same. Fig. 3 is a transverse sectional view taken on the line *xx* of Fig. 2.

A represents a semi-cylindrical box or case, which is made of metal and is provided with a longitudinal opening, B, which extends entirely through the case. At the lower end of the latter is made a shoulder, C, which projects beyond the outer side of the case, and the inner side of the said shoulder, at its upper end, is beveled, as at D. The said beveled shoulder constitutes the anvil of the saw-set.

E represents a set-screw, which extends through the shoulder, and the inner end of the said set-screw is adapted to project beyond the inclined side D. Through the rear side of the case A, at the lower end thereof, extends a thumb-screw, F. On opposite sides of the lower edges of the case A are made vertical recesses G, which are arranged parallel with the outer face of the anvil or shoulder.

In the front side of the case A is made a longitudinal slot, H, which extends from the anvil nearly to the top of the case, and communicates with the longitudinal opening B.

I represents a plunger, which fits in the longitudinal opening of the case, and the lower end of the said plunger has a projecting shoulder, K, which extends out through the slot H and has its outer face beveled downwardly and rearwardly, as shown, thereby forming a wedge, which is adapted to bear against the opposing inclined side of the anvil when the plunger is moved downwardly in the case. The front side of the said wedge is provided with a lon-

gitudinal groove, L, that is V-shaped in cross-section.

The operation of my invention is as follows: The blade of the saw which is to have its teeth set is secured in a vertical position, with the teeth extending upwardly, as shown in Figs. 1 and 2. The case A is then caused to fit on the upper edge of the saw-blade, so as to permit one of the saw-teeth to enter the lower end of the case, with the face of the said tooth bearing against the anvil, and the recesses G receiving the upper portion of the saw-blade between the tooth to be set and the adjacent saw-teeth. The angle at which the tooth is to be set is determined by turning the set screw E, and the screw F is turned so as to press against one side of the saw-blade, and thus clamp the case firmly thereto. The plunger is then moved downwardly upon the saw-tooth, and the beveled point of the latter bears against the inclined face of the wedge and enters the groove L. A sharp blow is then struck upon the upper end of the plunger-rod by a hammer, which forces the plunger downwardly, thereby bending the tooth outwardly against the anvil to the required angle, as will be very readily understood. The operation before described is then repeated for each tooth of the saw until all of the teeth have been set.

A saw-set thus constructed is extremely cheap and simple, and enables the operation of setting the saw-teeth to be performed with little labor and in a very short time.

Having thus described my invention, I claim—

1. The combination, in a saw-set, of the case A, having the anvil, and the plunger having the inclined cam or wedge adapted to force the saw-tooth outwardly against the anvil, for the purpose set forth, substantially as described.

2. In a saw-set, the case A, having the shoulder at one end, forming the anvil, which is inclined on its inner side at D, in combination with the plunger working longitudinally in the case, and having the cam or wedge provided with an inclined side to bear against the opposing side of the anvil, the said cam having the groove L on its inclined side, for the purpose set forth, substantially as described.

3. The combination of the case A, having

the anvil on one side at its lower end, and the
notches or recesses G, the set-screw E, extend-
ing through the anvil and adapted to project
beyond the inclined side thereof, the clamp-
5 ing-screw F, to bear against the saw, and the
vertically-movable plunger secured in and
guided by the case A, and having the inclined
cam or wedge to bear against the opposing
face of the anvil, for the purpose set forth,
10 substantially as described.

In testimony that I claim the foregoing as
my own I have hereto affixed my signature in
presence of two witnesses.

JAMES M. FLOWER.

Witnesses:

S. C. DOWELL,
C. B. TRICE.