

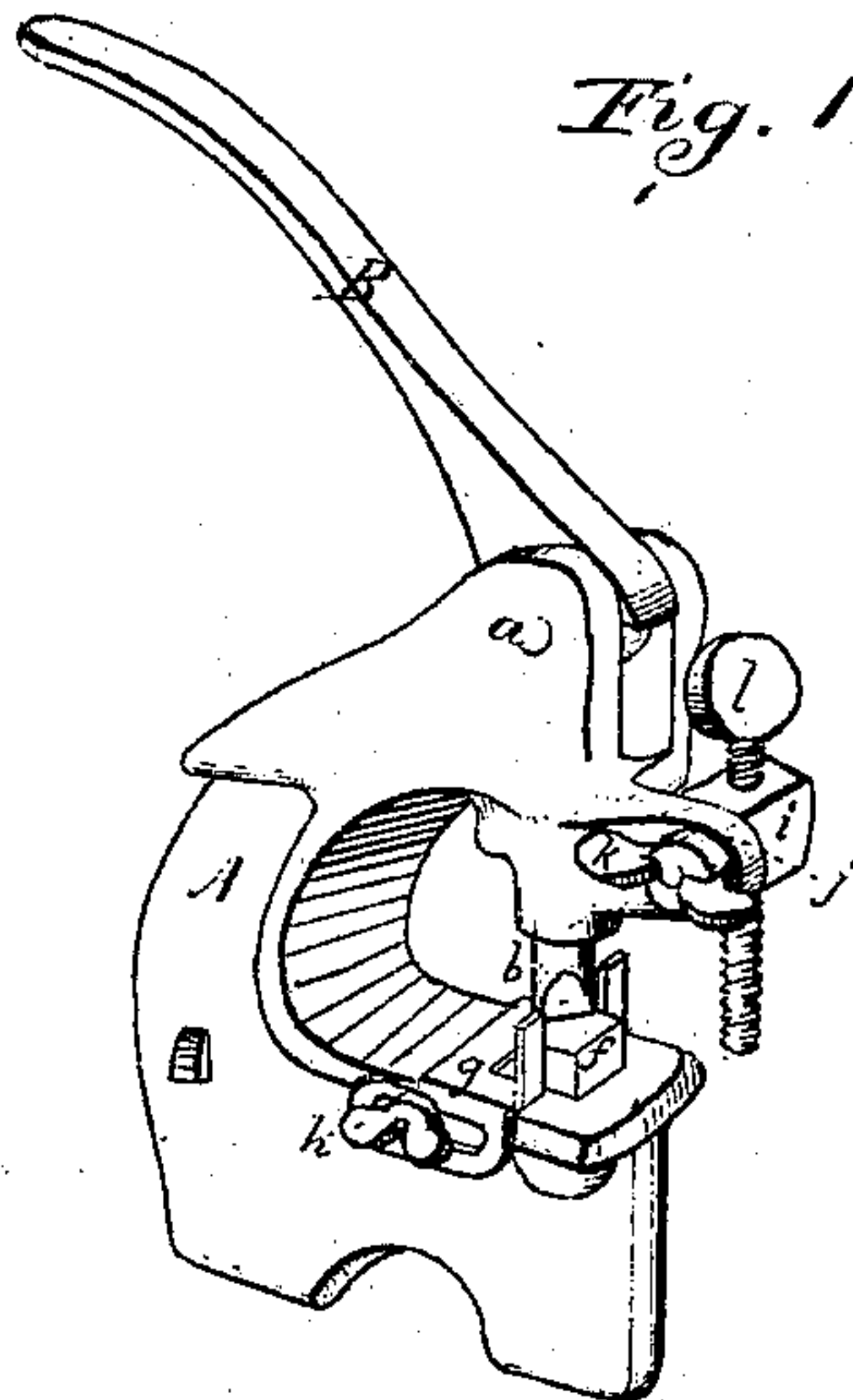
*H. K. Porter,*

*Saw Set.*

*No. 103,925.*

*Patented June 7, 1870.*

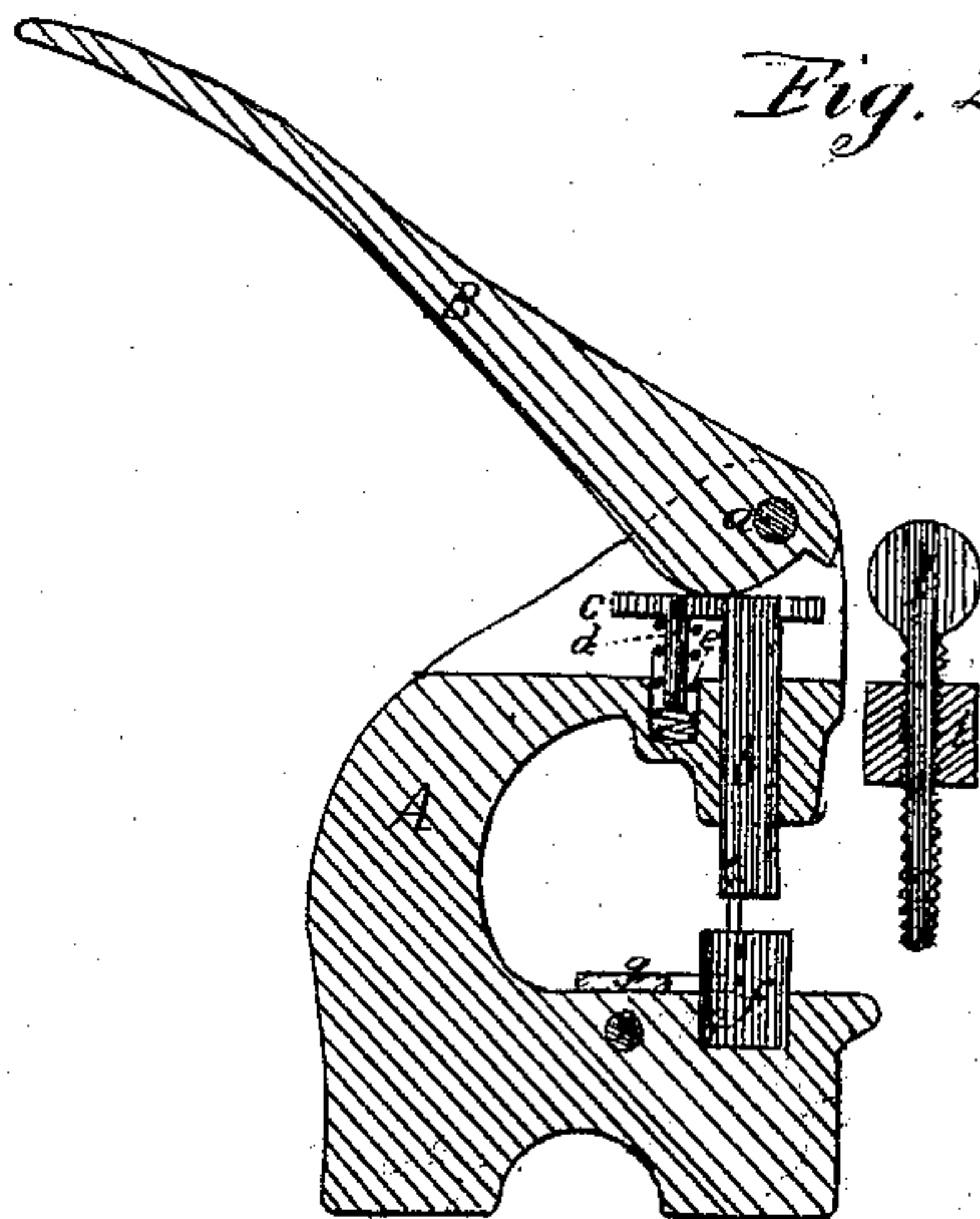
*Fig. 1*



*Fig. 3*



*Fig. 2*



*Witnesses*

*Herbert S. Whitman*  
*J. W. Porter*

*Inventor.*

*Henry H. Porter*

# United States Patent Office.

HENRY K. PORTER, OF BOSTON, MASSACHUSETTS.

Letters Patent No. 103,925, dated June 7, 1870.

## IMPROVEMENT IN SAW-SET.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, HENRY K. PORTER, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Saw-set; and I do hereby declare that the following, taken in connection with the drawing which accompanies and forms part of this specification, is a description of my invention sufficient to enable those skilled in the art to which it appertains to practice it.

This invention relates to new and useful improvements in that class of saw-sets which is held stationary in a vise, or by other means, when in use; and

The invention consists in the construction and arrangement of the parts relatively to each other, as hereinafter described.

Figure 1 is a perspective view of my invention;

Figure 2 is a vertical section thereof, taken through the axis of the hand-lever; and

Figure 3 shows the cross-section of the lower extremity of the plunger.

Similar letters of reference indicate like parts in the several figures.

In the drawing—

A represents the body of the set, the lower portion of which is formed so as to be held in the vise.

B is the eccentric lever pivoted in body A by the pin *a*, as shown.

*b* is the plunger, having an elongated cap, *c*, formed upon it, while a pin, *d*, depends from this cap into a hole in body A, and a coiled spring, *e*, shown in section in fig. 2, serves to elevate the plunger when the pressure of the lever B is removed.

The lower end of plunger *b* is formed as shown in fig. 3, in order that it may act upon the tooth being set without acting upon those on either side thereof.

*f* is a short steel block or anvil inserted in body A.

*g* is a gauge secured in place by the thumb-screw *h*,

and is adjustable by means of the slot through which the screw passes, as shown.

*i* is a stud pivoted in the short arm *j*, the thumb-nut *k* serving to hold the stud in position.

*l* is a thumb-screw fitted in stud *i*, as shown.

In use the set is secured in a vise, as before stated. The gauge *g* is adjusted for the length of teeth to be set, and the screw *l* is elevated or depressed to give the desired width of set, and, by means of its swinging movement, it is adjusted to suit the width of saw-plate, and locked in that position by the screw-nut *k*. The saw is then placed beneath screw *l* and the teeth brought against gauge *g*, when, by actuating lever B, the teeth are successively set to the required degree. It will be apparent that, by means of the swinging movement of screw *l*, it may be adjusted to the widest or narrowest saw, obviating the usual incumbrance of a plurality of stops to accomplish the same purpose, and by combining the plunger and anvil with a lever-press the force exerted upon the saw-teeth is equally as effective as the blow delivered upon a hammer-set, but obviates the liability of breaking or jamming the teeth which attends the use of that form of set.

Having thus described my invention,

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

1. The saw-set, consisting of the lever-press A B, the plunger *b*, anvil *f*, gauge *g*, and the vibrating or swinging adjusting stop-screw *l*, connected and arranged substantially as described and shown.

2. The vibrating or swinging adjusting stop-screw *l*, substantially as described and shown.

HENRY K. PORTER.

Witnesses:

E. F. HALL,

T. W. PORTER.