

(No Model.)

S. G. WILCOX.
Hand Device for Punching Metal.

No. 232,583.

Patented Sept. 21, 1880.

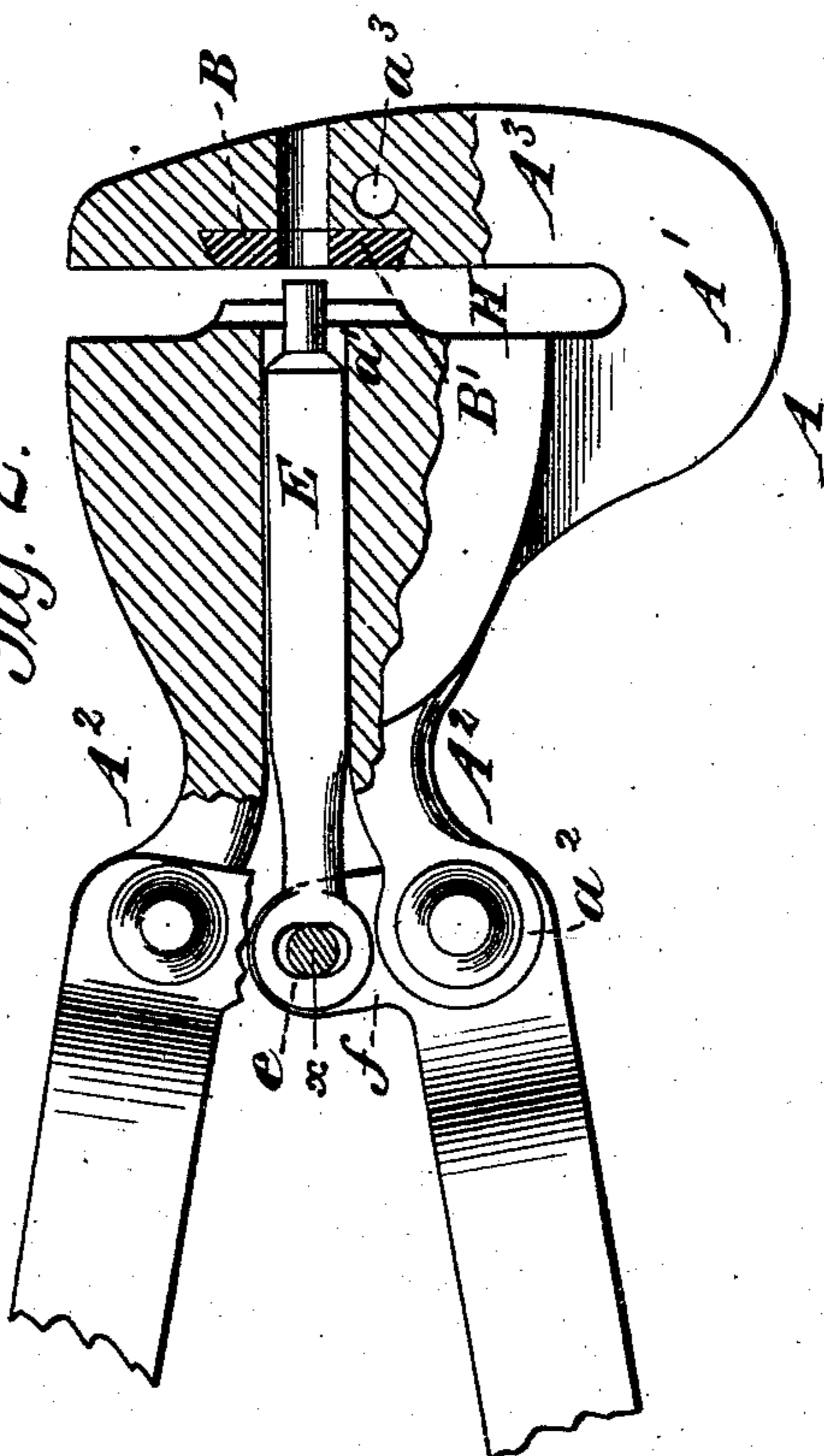
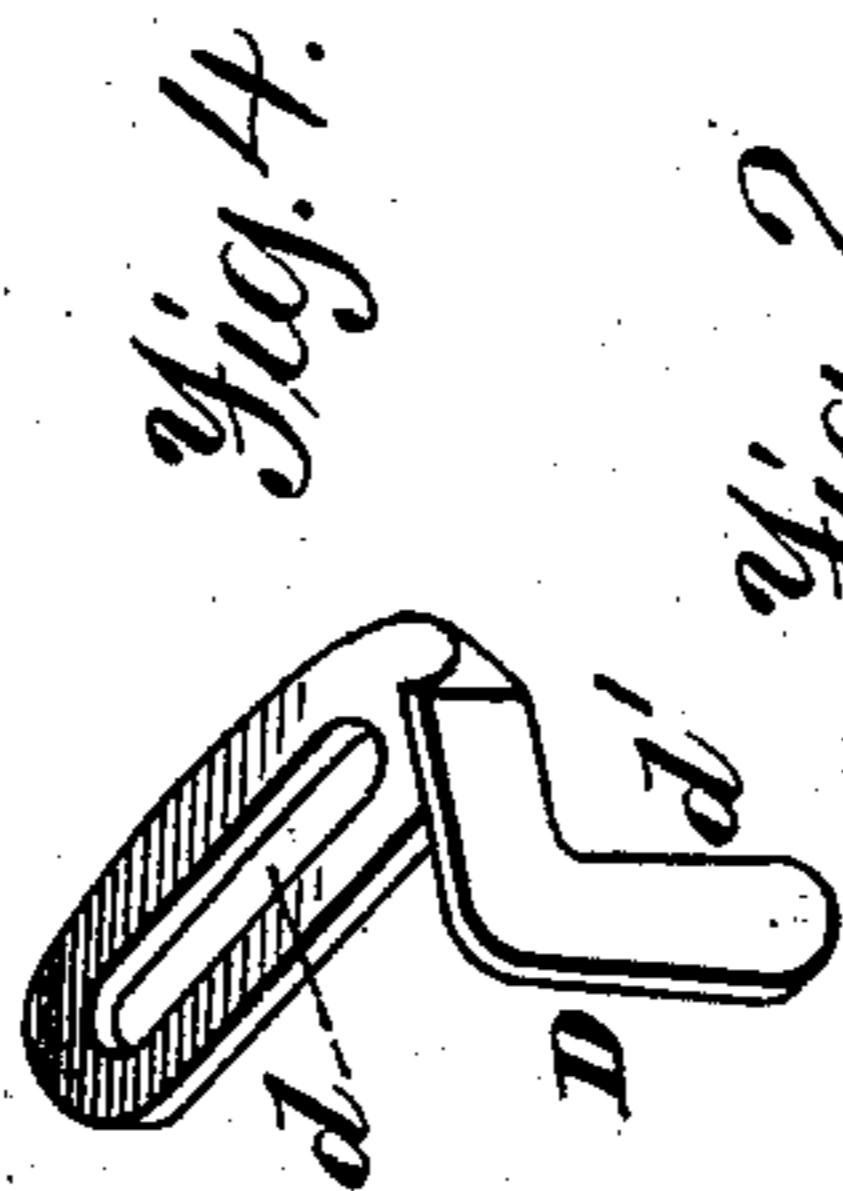
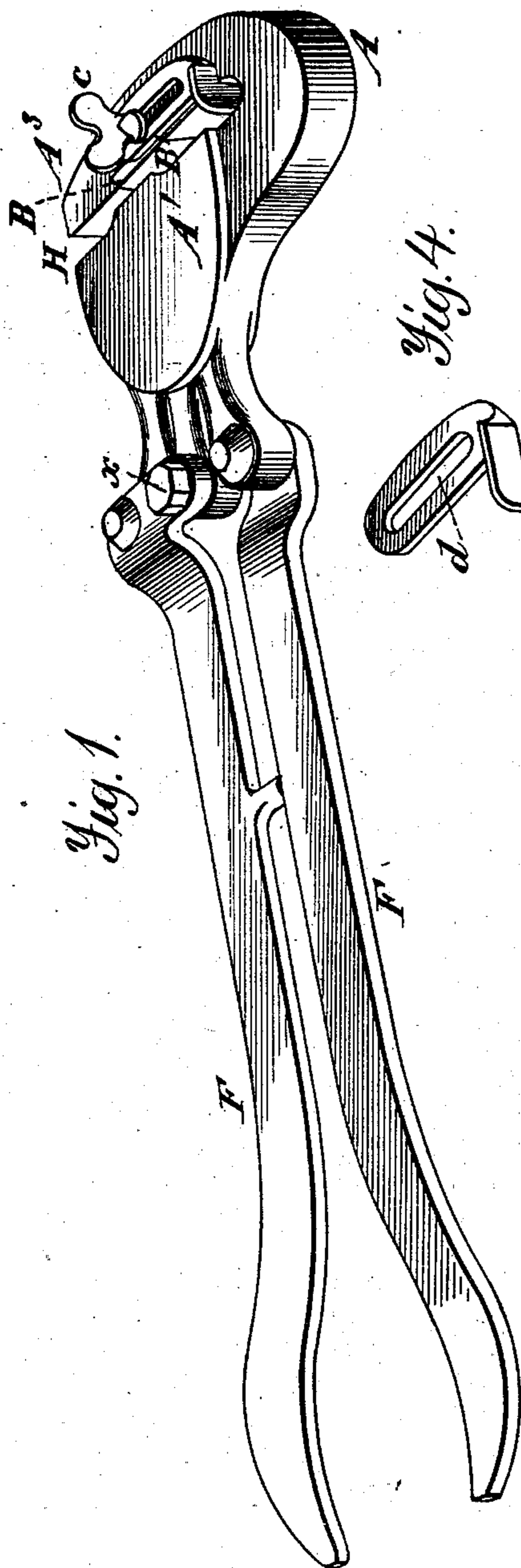
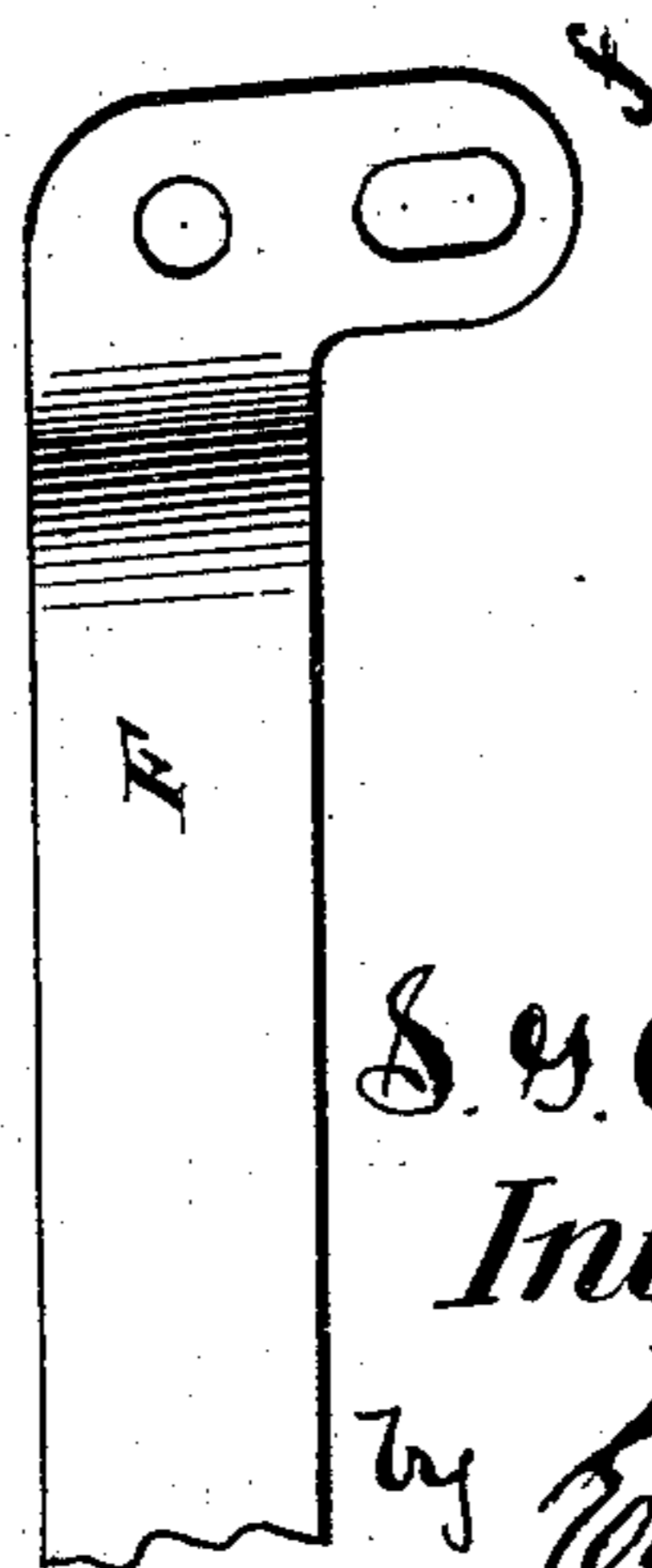


Fig. 3.



Witnesses.
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UNITED STATES PATENT OFFICE.

SPENCER G. WILCOX, OF WEEDSPORT, NEW YORK, ASSIGNOR TO A. H. WHITING, OF HARRISBURG, PENNSYLVANIA.

HAND DEVICE FOR PUNCHING METAL.

SPECIFICATION forming part of Letters Patent No. 232,583, dated September 21, 1880.

Application filed June 29, 1880. (No model.)

To all whom it may concern:

Be it known that I, SPENCER G. WILCOX, of Weedsport, in the county of Cayuga and State of New York, have invented certain new and useful Improvements in a Hand-Punch; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My invention relates to a hand-punch adapted to punch sheet metal, hoop-iron, or other metals by means of a male and female die, the female die being secured in the head and the male die being operated by hand-levers; and the novelty consists in the construction and arrangement of parts, as will be more fully hereinafter set forth.

The invention is designed as an improvement upon, or as an improved application of, the patent granted me January 21, 1879, No. 211,608, reissued February 3, 1880, No. 9,064.

The punch herein described is operated upon the same principle as the device described in said patents, but is improved in construction and in its adaptation for specific use. The invention consists in the employment, in connection with a stationary tool, head, or die, of a reciprocating punch of hardened and tempered steel operated by levers having slotted elbows and pivotal connections.

A dovetail recess in the head, and arranged transversely thereto, receives a steel die, and the reciprocating punch operates therein.

This punch may be secured to the hand-lever elbows by screw-connections to an adjuster or adjusting-sleeve, as described in my rod and wire cutter hereinbefore mentioned; but there being but little wear to be compensated for, it may be secured to the elbows by a common bolt, as shown.

The head may be used as a hammer when desired, and may be of much service in bending the hoop, &c., or hammering down rough edges and the like. It is provided with an elongated transverse slot, through which the metal to be punched is passed, and with an adjustable gage secured thereto, as shown.

It will be observed that the gage is secured by a thumb-screw, and may be secured to either side of the head.

In the accompanying drawings, which form a part of this specification, Figure 1 is a perspective view; Fig. 2, a plan section; Fig. 3, a detached view of the elbow, and Fig. 4 a detail view of the gage.

Referring to the drawings, A represents a stationary head composed of the body A', having punch-socket a', arms A², having pivot-holes a², and die-head A³, having threaded hole a³.

In the die-head A³ is a transverse inclined dovetailed slot or socket, B, which receives the die B', and between the die-head and the body is an elongated transverse slot, H, which receives the metal to be punched.

The threaded hole a³ receives a threaded thumb-screw, c, which operates to hold a gage, D, having slot d and presser-arm d', in any desired fixed position.

Within the socket a' operates the punch E, which, having an eye, e, at the rear extremity, receives a bolt, x, which secures it to the elbows f upon the hand-levers F by said bolt passing through the eyes e and being secured by a nut.

The gage-arm d' operates in the slot H, and the gage may be adjusted in such a manner as to punch any width of hoop-iron at will.

I am aware that the employment of a simple thumb-screw gage upon a punching device is not broadly new, and I do not wish to cover such application of the gage to tools of well-known construction in this application.

What I claim is—

1. The head A, composed of the body A', having punch-socket a', arms A², having pivot-holes a², and die-head A³, having hole a³, and transverse inclined dovetailed slot B, in combination with elbow-levers F f, slot H, punch E e, and die-plate B', as and for the purposes set forth.

2. The gage-plate D d d', as shown, the thumb-screw c, head A, as shown, and slot H, in combination with the elbow-levers F f, die-plate B', and punch E e and bolt x, as and for the purposes set forth.

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

SPENCER G. WILCOX.

Witnesses:

WM. HENDERSON,
C. M. HENDERSON,