

J. Lyle,

Leather Punch.

No. 96453.

Patented Nov. 2. 1869.

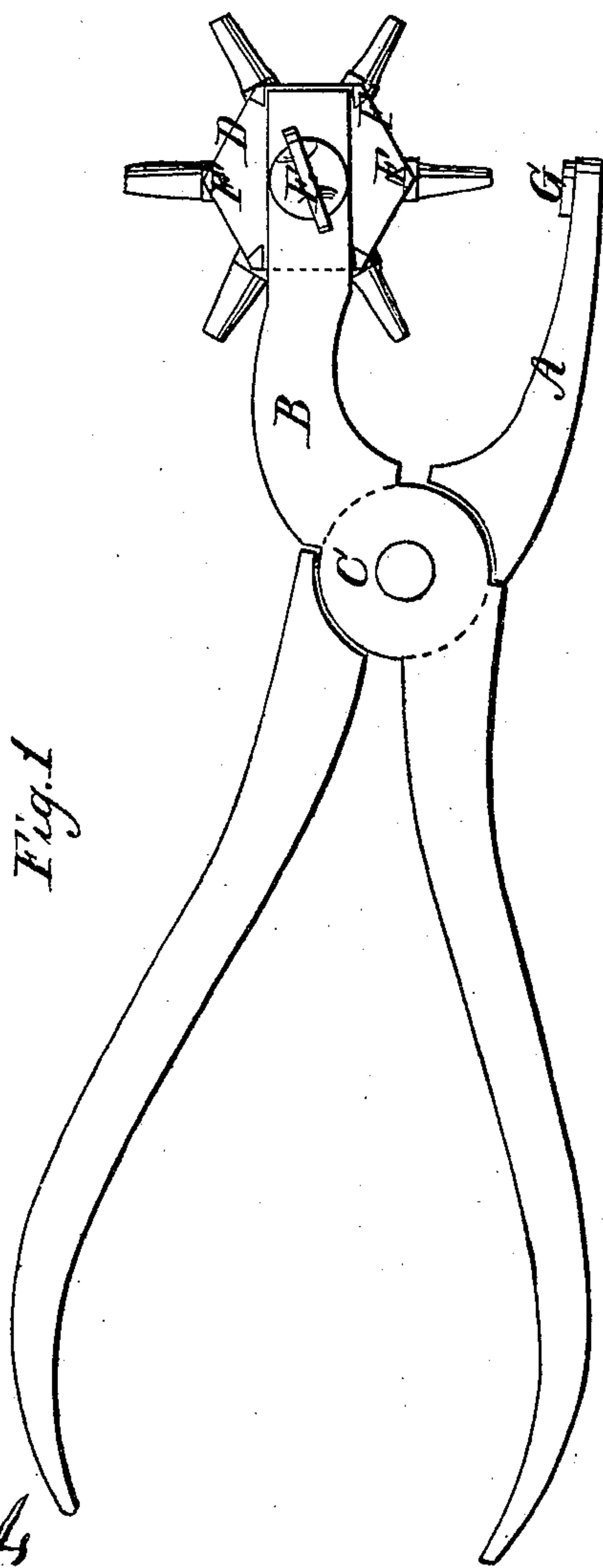


Fig. 1

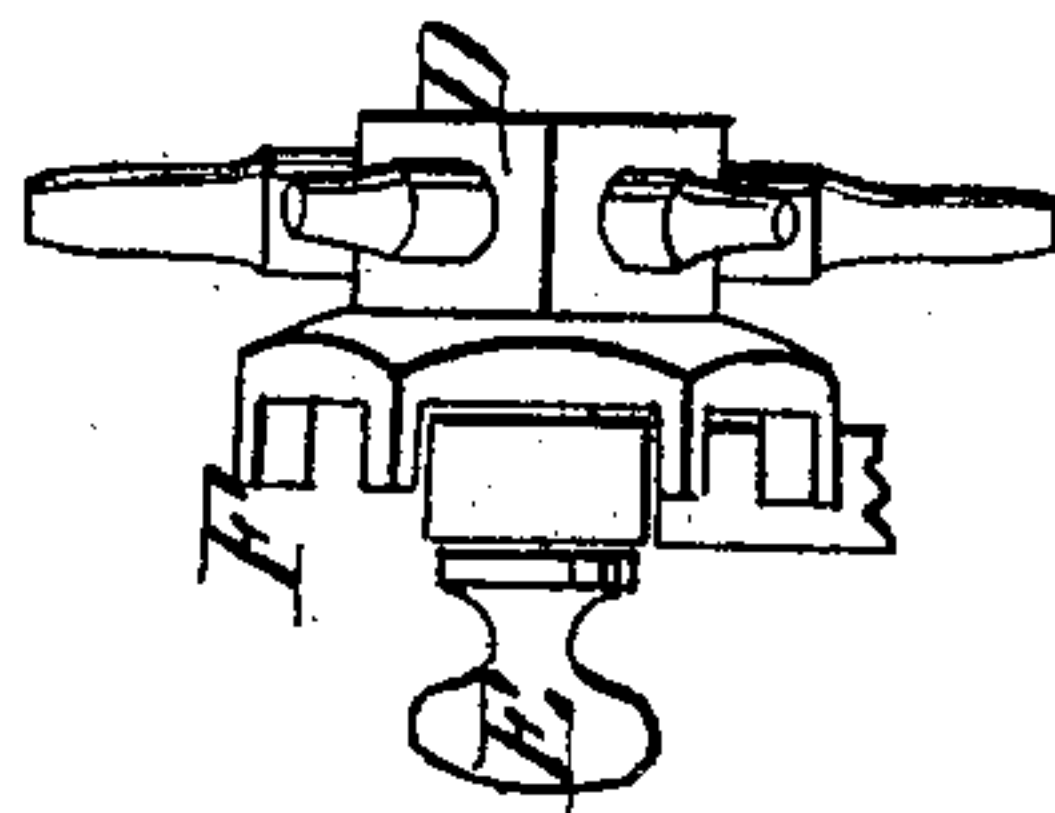


Fig. 2

Witnesses
C. Baetzig
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United States Patent Office.

JOHN LYLE, OF NEWARK, NEW JERSEY.

Letters Patent No. 96,453, dated November 2, 1869.

IMPROVEMENT IN LEATHER-PUNCHES.

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, JOHN LYLE, of Newark, in the county of Essex, and State of New Jersey, have invented a new and useful Improvement in Leather-Punches; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to improvements in hand-spring leather-punches, having a number of punches, of various sizes, arranged on an adjustable hub, connected to one end of one of the jaws; and

The invention consists in an improved arrangement of the hub for connection with the said jaw, whereby it is held more securely in position, against the tendency to turn when punched.

Figure 1 represents a side elevation of my improved punch; and

Figure 2 represents an end view, showing the hub, and the end of the jaw to which it is connected.

Similar letters of reference indicate corresponding parts.

The jaws A B are the same as those of ordinary construction, except that the end of the jaw B is made rectangular in cross-section, and is bent near the joint C, so as not to be in the same plane with the other jaw.

D is the hub, whereon the punches are mounted radially.

It is mounted axially on a pivot thumb-screw, E, screwing into the said hub, and passing through the jaw B transversely, as shown in the drawings.

This hub is provided, on the face which bears against the jaw, with stud-projections F, as many as there are punches, and so arranged in position, relatively to the punches, and in respect of distance from each other, that when clamped upon the jaw B, for any one of the punches to act upon the die G, four of the said stud-projections will bear against the edges of the said jaw, two on one edge, and two on the other, so as to wholly prevent any movement of the hub on its axis, and to effect the same without unduly straining any of the parts, holding the punches as rigidly as when only one punch is permanently connected to its jaw.

The thumb-screw is unscrewed for adjusting the hub.

Having thus described my invention,

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

The combination, with the jaws A B, of the hub D and thumb-screw E, when the said hub is provided with the punches and the projections F, the latter being arranged, relatively to the jaw B, substantially as specified.

JOHN LYLE.

Witnesses:

GEO. W. MABEE,
ALEX. F. ROBERTS.