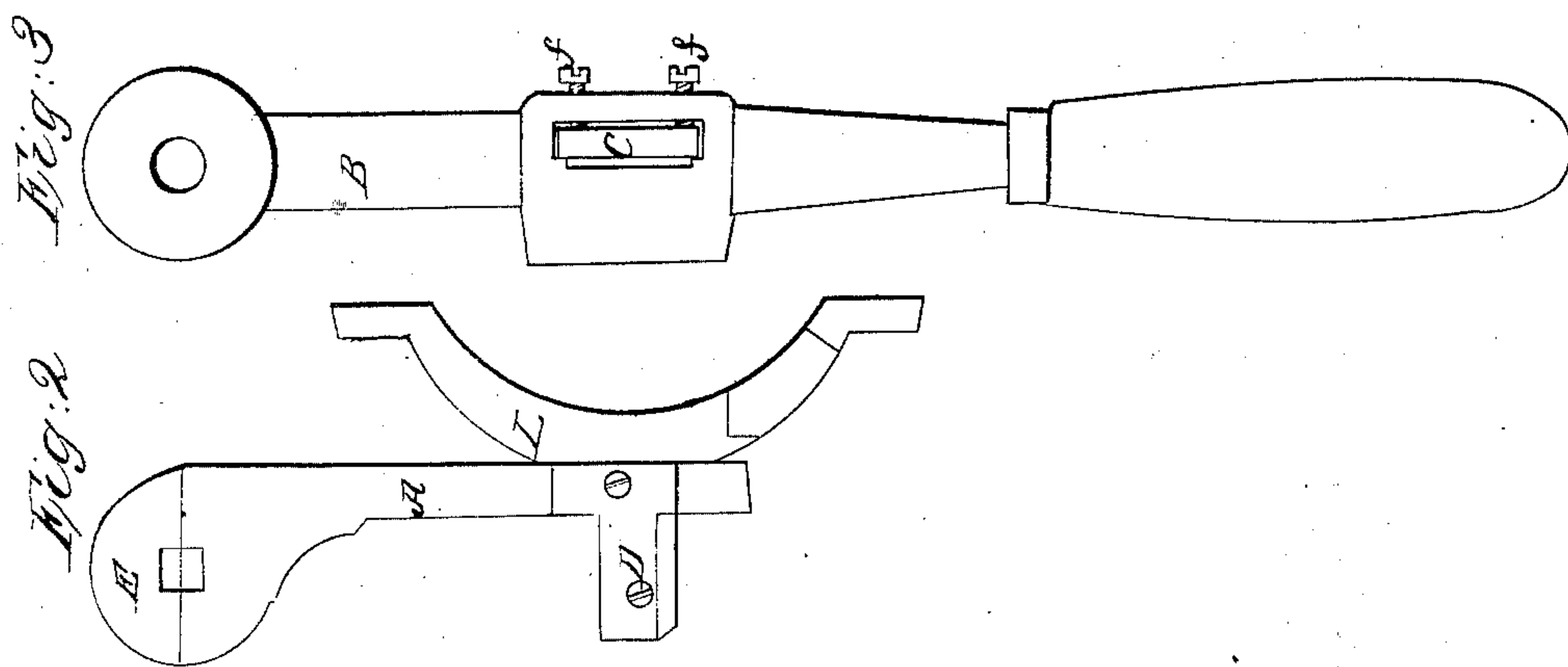
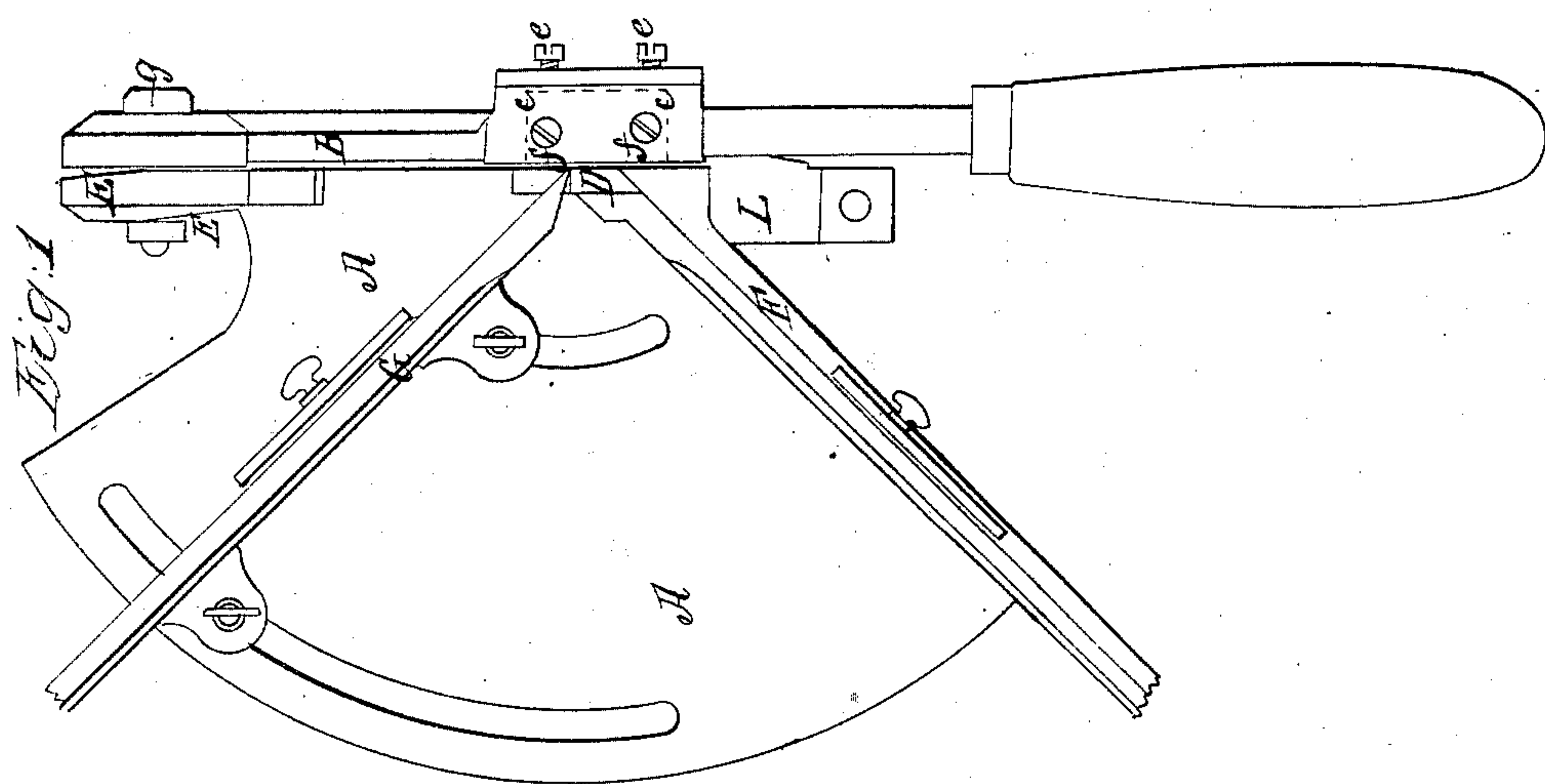


Grover & Pelouze,
Mitering Printers' Rules.
N^o 28,472. Patented May 29, 1860.



Witnesses:
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UNITED STATES PATENT OFFICE.

OLIVER F. GROVER, OF MIDDLETOWN, CONNECTICUT, AND H. L. PELOUSE,
OF NEW YORK, N. Y.

TOOL FOR MITERING PRINTERS' RULES.

Specification forming part of Letters Patent No. 28,472, dated May 29, 1860.

To all whom it may concern:

Be it known that we, OLIVER F. GROVER, of Middletown, in the county of Middlesex, and in the State of Connecticut, and HENRY L. PELOUSE, of New York city, in the county of New York, and in the State of New York, have invented a new and useful Printers' Mitering-Machine for Mitering Printers' Rules; and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon and made to form a part of this specification.

Similar letters refer to like parts of the machine.

The nature of our invention consists in the structures, arrangements, and combination of the parts of the mitering-machine, by which we produce a cheap and durable machine, which is easy to be operated, as will be fully shown hereinafter when reference is being made to the accompanying drawings.

To enable others skilled in the art to make and use our invention, we will proceed to describe its construction and operation by referring to the accompanying drawings, of which—

Figure 1 is a face view. Fig. 2 is an end view showing the connecting-ear E and the die D. Fig. 3 is a side view of the lever of the cutter-holder and the edge of the cutter.

The frame or bed of the machine is made of iron or any material that is sufficiently strong for the purpose of the operating of the machine. The cutter and the die are made of steel and tempered.

A A, Fig. 1, represent the bed of the machine.

B, Fig. 1, represents the lever attached to the connecting-ear E E with the bolt *g*.

c c, Fig. 1, the dotted lines, indicate the place of the cutter C; *e e*, the set-screws for adjusting the cutter C; *f f*, the screws for holding the cutter when adjusted.

D, Fig. 1, represents the die on the stationary arm for stopping the operation of the cutter C when it has performed its work, and for holding the end of the rule against while squaring and mitering it, (the rule.)

E E, Fig. 1, show the form of the connecting-ear where it is beveled off for the purpose of giving the lever B a side and cross motion, so as to guide the operation of the cutter C while it is operating upon the end of the rule.

F, Fig. 1, shows the stationary arm in connection with the die D, for holding the side of the rule against while cutting the end of the rule to its shape or miter.

G, Fig. 1, represents the movable arm for producing a square and also different angles.

A, Fig. 2, represents the end of the machine, showing the die D and the form of the connecting-ear E.

D, Fig. 2, shows the die for the cutter C to stop against when it has done cutting.

E, Fig. 2, shows the shape of the connecting-ear.

L, Fig. 2, represents one of the legs for the machine to rest upon.

C, Fig. 3, represents the cutter.

The operation of the mitering-machine is simply this: For mitering the rule we place the rule on the side of F and D, with the rule extended past D far enough to form the miter on the end of the rule, which will be cut off and shaped by the repeated operation of the cutter C until the cutter will cut no more by coming in contact with the die D.

For squaring the end of the rule and likewise bringing it to a length, we place the movable arm G at right angles with the cutter C and in a line with the edge of the die D, and then perform the operation with C the same as for mitering on F and D.

What we claim as our invention, and desire to secure by Letters Patent, is—

1. The attaching B to A, as shown at E E, so as to accommodate the motions of the lever and cutter in their performance, as set forth.

2. The manner of adjusting C, also F, in combination with G, for the purposes set forth.

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Witnesses:

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