John Jacobs Collar Block

73977

Fig: 1.

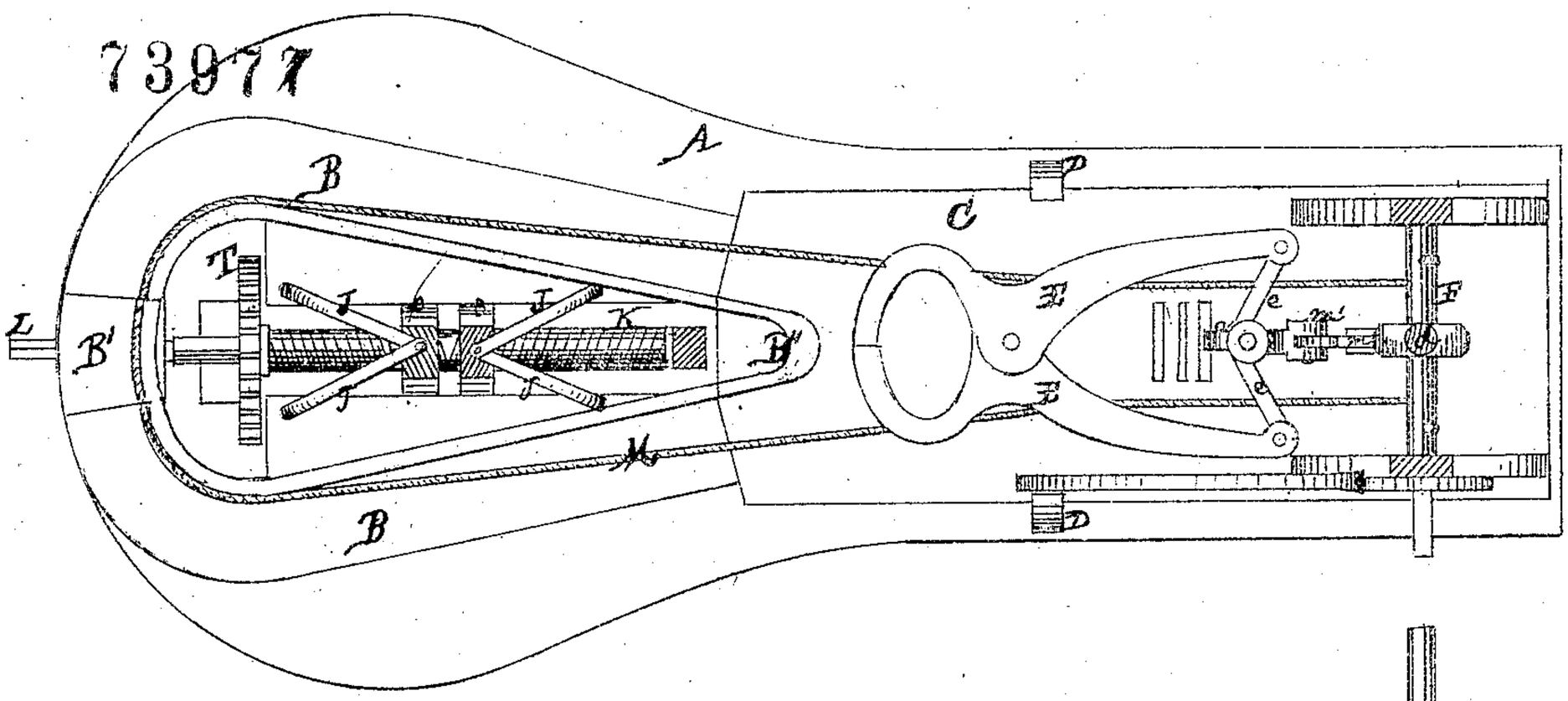

Fig: 2.

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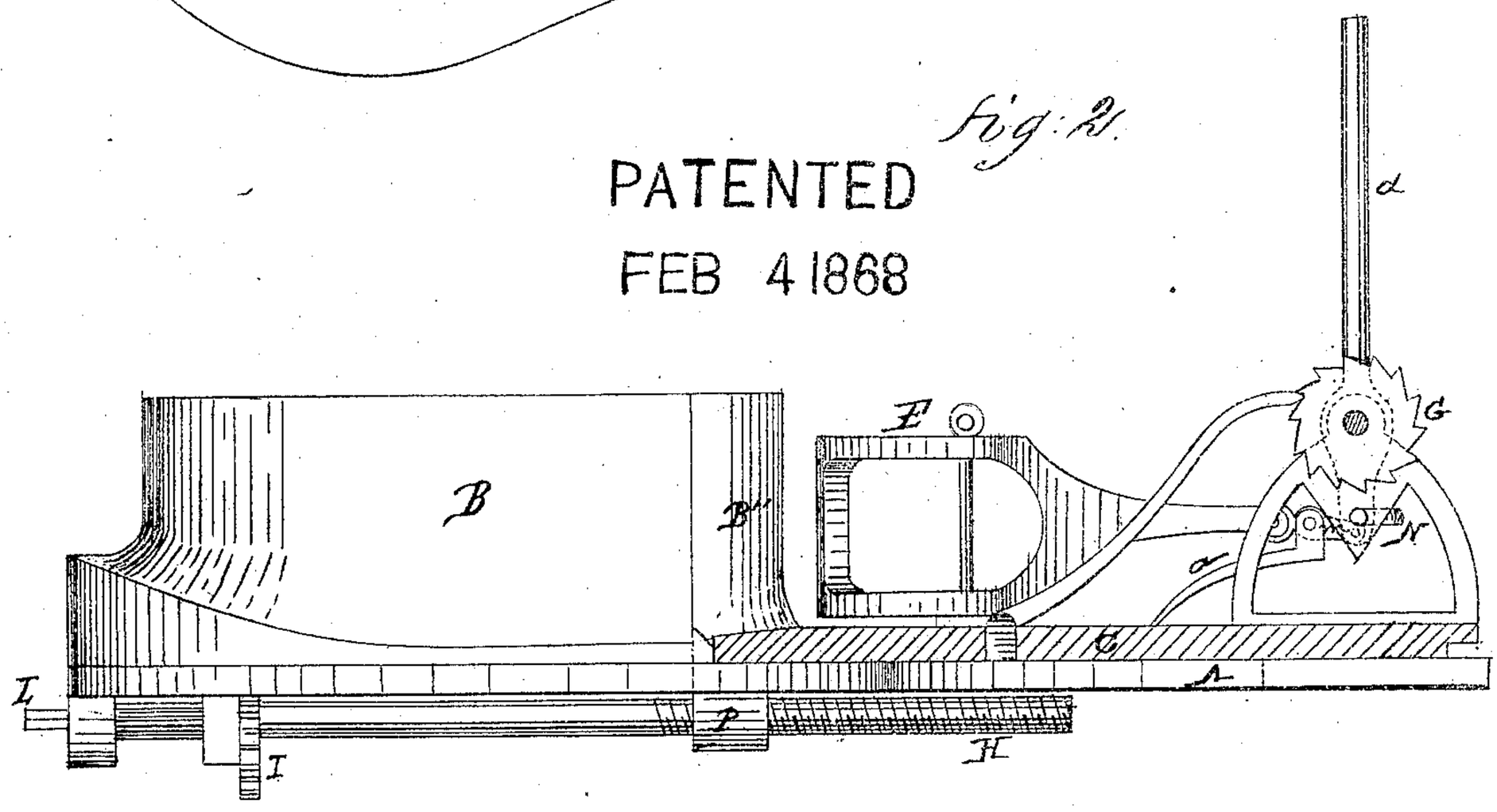

Witnesses
W. W. Mars
W. D. Stockbridge

Inventor.
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Atty

UNITED STATES PATENT OFFICE.

JOHN JACOBS, OF ONEIDA, ILLINOIS.

IMPROVED COLLAR-BLOCK.

Specification forming part of Letters Patent No. **73,977**, dated February 4, 1868; antedated January 24, 1868.

To all whom it may concern:

Be it known that I, JOHN JACOBS, of Oneida, in the county of Knox, and in the State of Illinois, have invented certain new and useful Improvements in Collar-Blocks; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

In the annexed drawings, making part of this specification, A represents a table, which is supported upon suitable legs, upon which the collar-block is placed and secured.

B B B′ B″ represent the block or former, which is made in four parts—two side pieces, B B, the butt-end piece B′, and the upper end or point, B″. The butt-end piece B′ is secured fast to the table, while the other parts move upon it. This block or former is made of metal, and made hollow, and within it is placed a right-and-left screw-shaft, K. Two nuts, *o o*, work upon this shaft K, and are connected by means of rods J J to flanges formed upon the inner sides of the parts B B, as seen in the figure. When the shaft K is made to revolve in one direction, the two nuts *o o* separate, causing the arms or rods J J to move the parts B B from each other; but when revolved in the other direction the rods serve to draw these two parts together.

Upon the shaft K is secured a gear-wheel, T, which takes into a similar gear-wheel, I, upon a shaft, H, which latter shaft is provided with a screw-thread upon one end, and which rests in suitable bearings beneath the table. The shaft H passes with its threaded end through the lower end, P, of the part B″ of the former, in which is a female screw. The end P passes through a slot in the table A.

C represents a platform, which rests and slides upon the table A. The part B″ of the former passes through this platform C, and is firmly secured to it. When the shaft H is revolved in one direction by a crank placed upon its end Z, the platform C, with its part B″, is moved from the other parts of the former or block, and at the same time its wheel I catching into and revolving wheel T and its shaft K, the two parts B B are moved from each other. A movement of the shaft H in the opposite direction causes all of the parts of the former to move toward each other until they meet. By this arrangement the collar is expanded to suit the nature of the case, at the will of the operator.

M represents a cord which passes around the former or block to form the crease or hame-groove of the collar.

Pivoted upon the platform C are a pair of pinchers, E E, the handles of which are connected by the arms *e e* and the two links *m′ m* to the lower end of a lever, *d*. By moving the upper end of this lever *d* the pinchers are made to open or close. A pawl or ratchet-tooth connected to one of the links *m* catches into teeth formed in the platform C, for the purpose of stationing the lever at any desired point. The cord M passes under a cross-bar, N, and being carried up has its two ends made fast to the roller F. This roller F is revolved by a crank on one end, and is provided with a ratchet-wheel, into which catches a ratchet-tooth on the platform C, to secure it when desired. The roller F passes through an opening in the lever *d* made to receive it. The pinchers are for the purpose of catching and holding the leather of the point of the collar while the collar is being stretched by the expanding-block or former.

I propose to use pins or lugs in the under sides of the parts B B, which said pins or lugs will work or play in suitable grooves in the table A, for the purpose of guiding those two parts B B when the block is being expanded or contracted.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The use of the right-and-left screw-shaft K, provided with the nuts *o o* and arms or rods J J, for expanding or contracting the parts B B, substantially as herein set forth.

2. The arrangement of the shaft H, pinions or gear-wheels I and T, and shaft K, for expanding and contracting the former, and at the same time moving the platform C, substantially as specified.

3. The arrangement of the pinchers E upon the platform C, and with the arms *e e*, links *m′ m*, and the lever *d*, as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 10th day of April, 1867.

JOHN JACOBS.

Witnesses:
J. M. MASON,
A. N. MARR.