

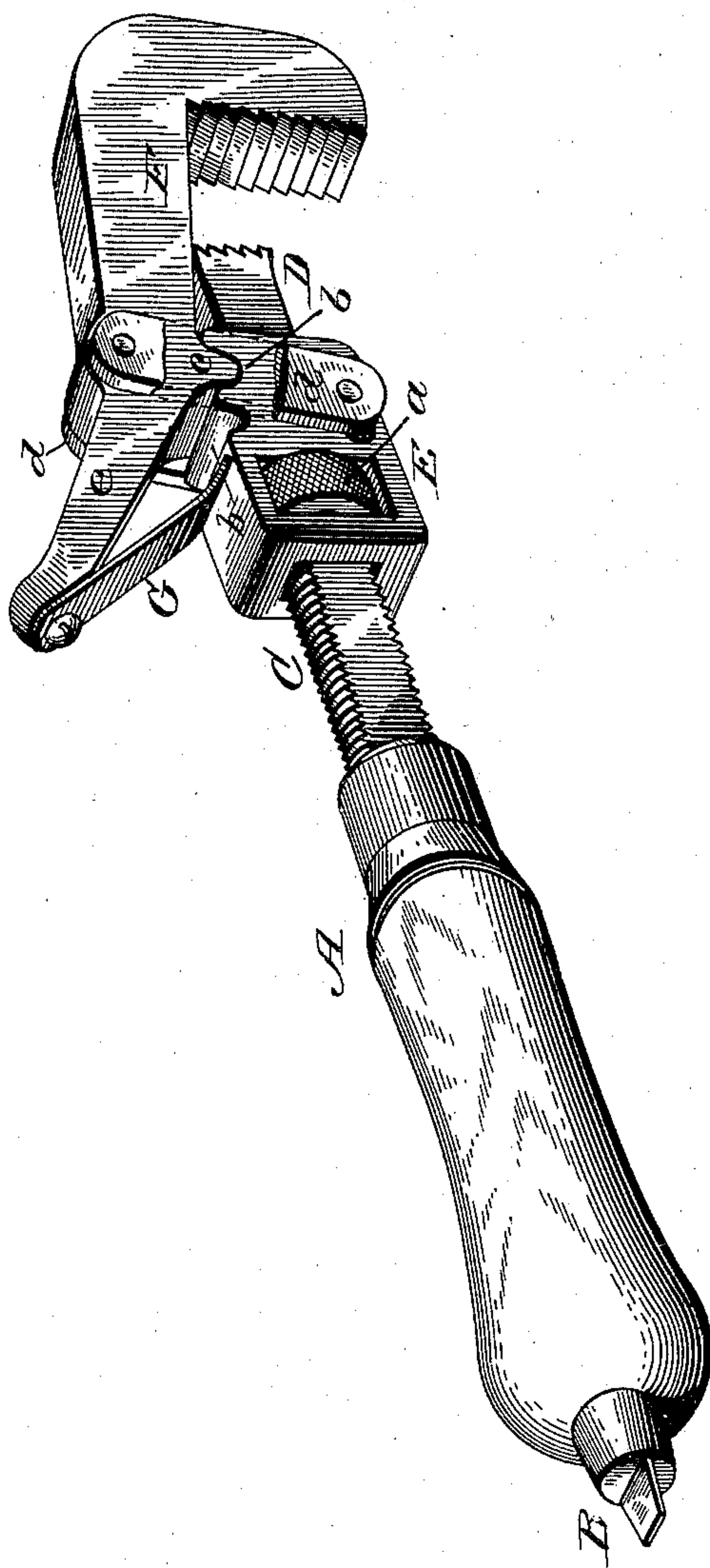
(No Model.)

W. A. HATHAWAY.

WRENCH.

No. 335,192.

Patented Feb. 2, 1886.



Witnesses
J. W. Deiden,
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Inventor
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UNITED STATES PATENT OFFICE.

WILLIAM A. HATHAWAY, OF NORTH KINGSTOWN, ASSIGNOR TO CHARLES H. ATWOOD, OF APPONAUG, RHODE ISLAND.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 335,192, dated February 2, 1886.

Application filed June 18, 1885. Serial No. 169,050. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. HATHAWAY, a citizen of the United States, residing at the town of North Kingstown, in the county of Washington and State of Rhode Island, have invented certain new and useful Improvements in Wrenches; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawing, making a part of this specification, and to the letters and figures of reference marked thereon.

The present invention has relation to certain new and useful improvements in wrenches; and it consists in the details of construction substantially as shown in the drawing, and hereinafter described and claimed.

In the accompanying drawing, which represents a perspective view of my invention, A designates the handle of the wrench, provided at its end with a screw-driver, B. The handle A has the usual screw-threaded shank, C, terminating at its outer end in a serrated inner jaw, D, which passes through a block, E, and extends beyond the same. An adjusting-nut, *a*, engages with the screw-threads on the shank C, through which it passes, and extends out through slots in the sides of the block E, so that it may be turned by the fingers to move the block along the shank. The block, near its outer end, is formed with a curved socket, *b*, to form a seat for a similarly-formed lug, *c*,

on the outer or movable jaw, F, and is held therein by the links *d*, pivoted to the sides of the jaw and block. The jaw F is of the usual form, and has back of the lug *c* a shank, *e*, to the under side of which is connected one end of a flat spring, G, the free end thereof bearing on the block, thus retaining the movable jaw in position against the object gripped, the lug *c* and the seat or socket *b* forming the fulcrum for the jaw.

If preferred, two or more of the sockets *b* may be employed, and the block E have a corresponding number of holes for the pin of the links *d*, so that it can be changed to bring the jaw nearer to or farther from the block.

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

In a wrench, a block adapted to slide on the screw-threaded shank of the stationary jaw, and provided with a curved socket, in combination with a movable jaw connected to the block by pivoted links, and having a lug seated in the socket, and a shank provided with a spring, substantially as described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WILLIAM A. HATHAWAY.

Witnesses:

HESTER A. CHADSEY,
HENRY T. CHADSEY.