

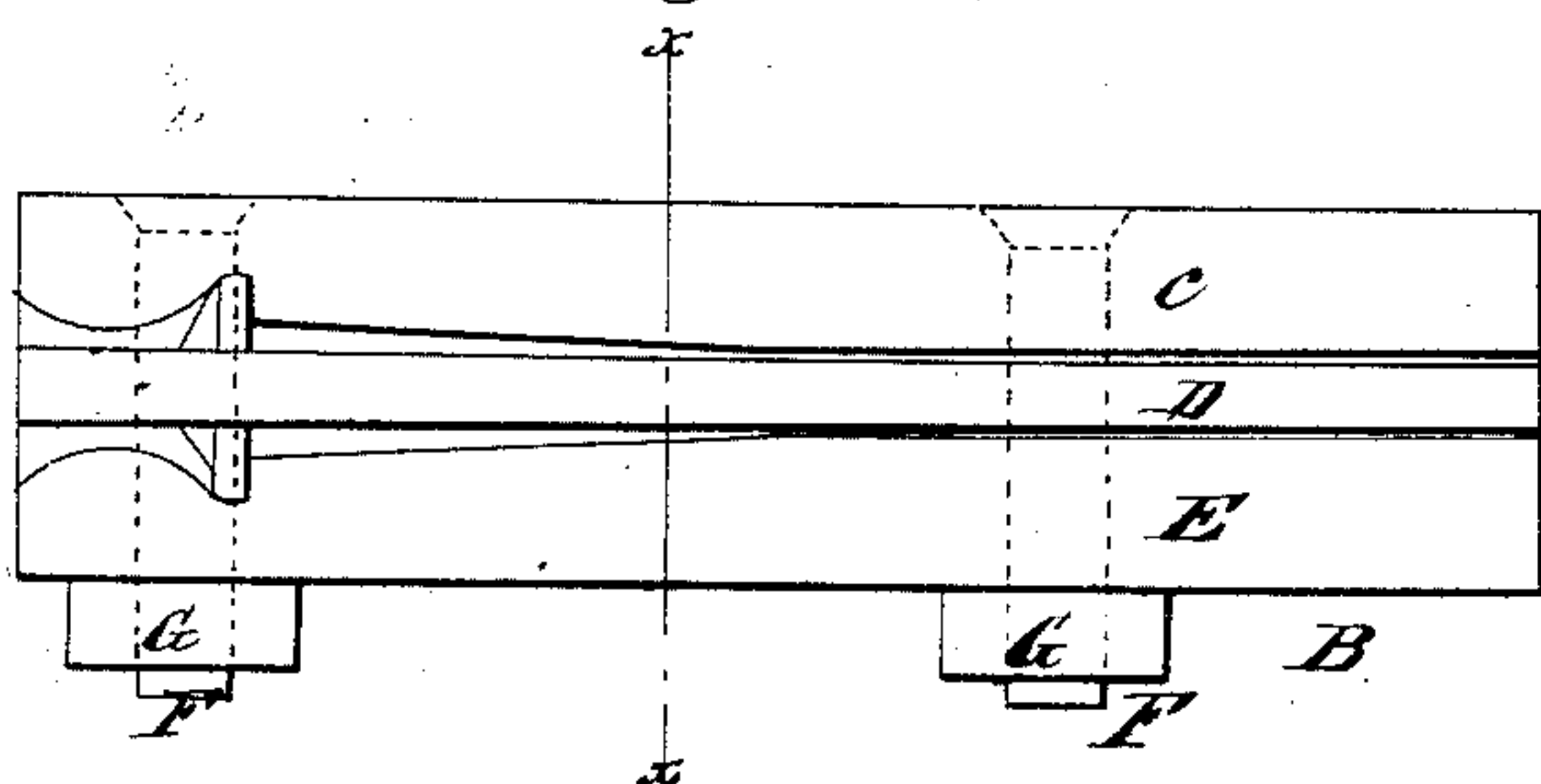
*L. Burns.*

*Turning Lathe.*

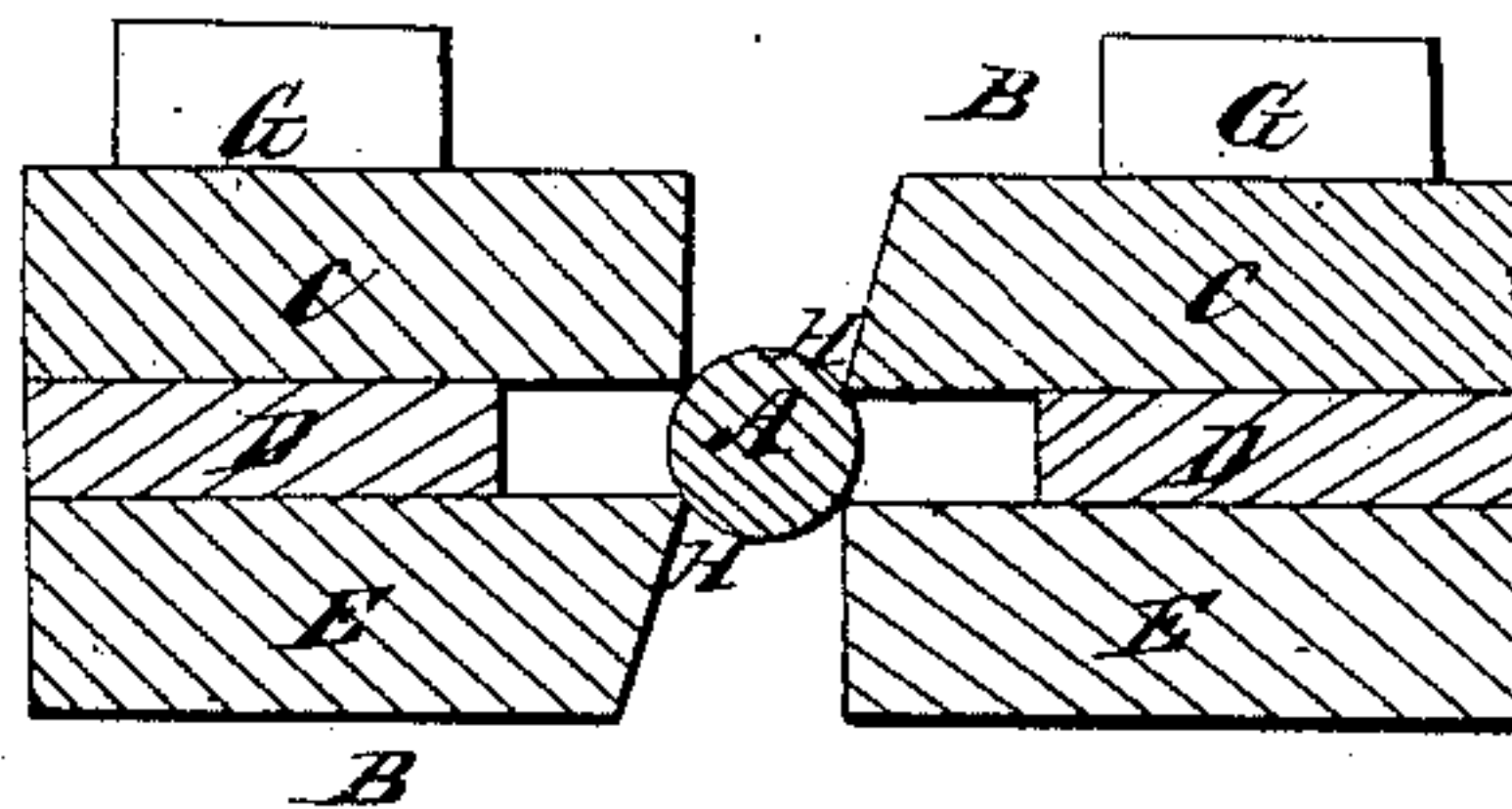
*N<sup>o</sup> 62,390.*

*Patented Feb. 26, 1867.*

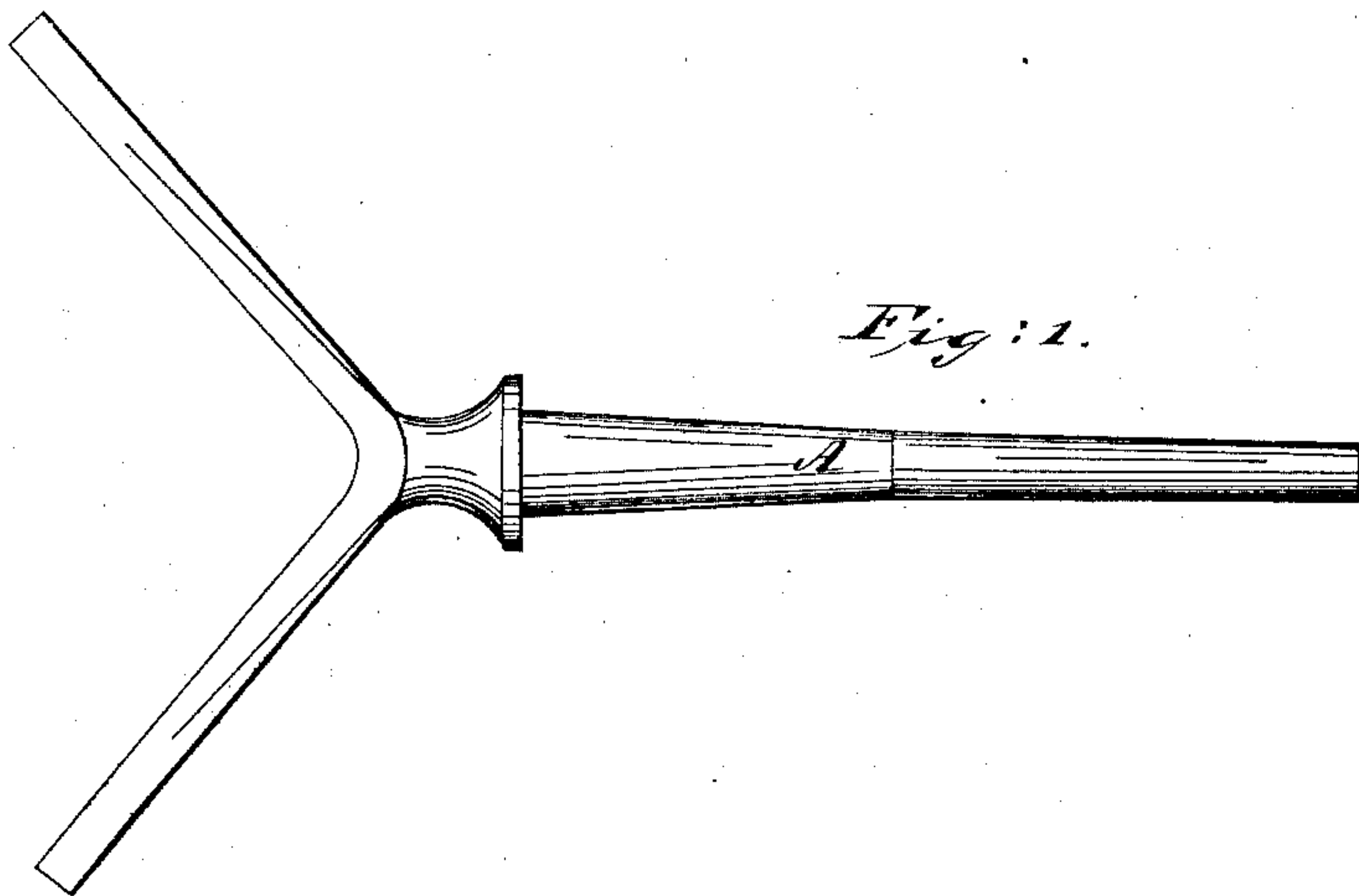
*Fig: 2.*



*Fig: 3.*



*Fig: 1.*



*Witnesses:*

*Wm Jackson*

*J. A. Service*

*Inventor*

*L. Burns*

*Per Wm Jackson*  
*Attorney*

# United States Patent Office.

LEANDER BURNS, OF PORTCHESTER, NEW YORK.

*Letters Patent No. 62,390, dated February 26, 1867.*

## IMPROVED TOOL FOR TURNING BOLTS.

*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, LEANDER BURNS, of Portchester, in the county of Westchester, and State of New York, have invented a new and useful Improvement in the Turning or Shaving Bolts, &c.; 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.

The present invention relates to the turning or shaving of bolts, &c., and it consists principally in a peculiar construction or arrangement of cutters for shaving or turning the bolt, which will be now explained, reference being had to the accompanying plate of drawings, in which—

Figure 1 is a side view of a bolt turned or shaved according to the present invention.

Figure 2, a side or edge view of one of the cutters or dies employed: and

Figure 3, a cross-section of fig. 2.

Similar letters of reference indicate like parts.

A, in the drawings, represents a bolt which has been turned or shaved according to the present invention, which is, by means of two cutters or dies, B, bearing or acting upon opposite sides of the bolt, as shown in fig. 3 of the drawings. These dies or cutters are each formed of three parts or pieces marked C, D, and E respectively, in the drawings, secured together by means of screw-bolts F and nuts G, as shown in fig. 3, with a plate or part, D, in the centre, by the thickness of which the distance or space between the inner edges of the outer plates C and E is regulated according to the diameter of the bolt which is to be turned by the dies; one, H, of such inner edges being sharpened so as to cut or shave the bolt, in connection with which it is arranged to act, and the other being adapted to hold the bolt firmly in position while being acted upon by the dies, as is plainly shown in fig. 3 of the drawings. If the bolt is to taper, or at any points of its length be provided with a bead, or in any other way changed in form from a straight bolt, it is only necessary to shape the cutting and holding edges accordingly, as is plainly illustrated in fig. 2 of the drawings, in which case they are shaped for the form of bolt shown in fig. 1 of the drawing.

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

The cutters or dies B, formed in three parts or sections, C, D, and E, secured together, and constructed substantially as and for the purpose described.

LEANDER BURNS.

Witnesses:

THOMAS C. BRUNDAGE,  
ALLEN J. MARSHALL.