

R. C. NUGENT.  
Screw-Cutting Dies.

No. 166,716.

Patented Aug. 17, 1875.

Fig. 1.

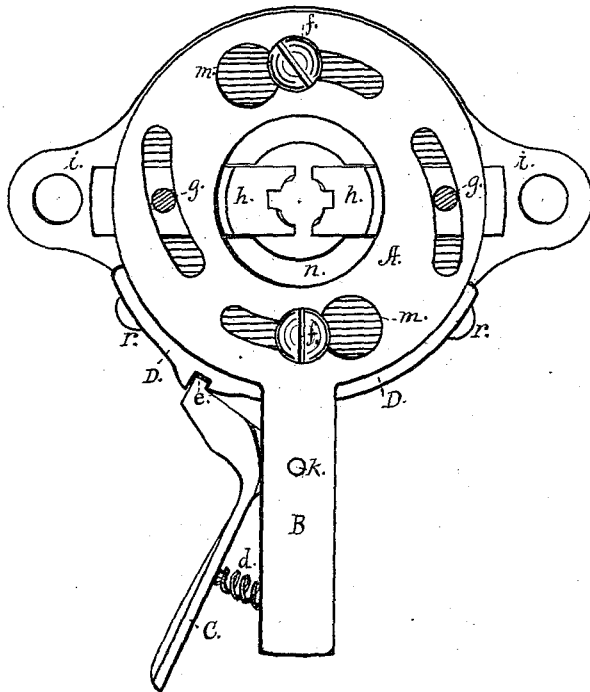
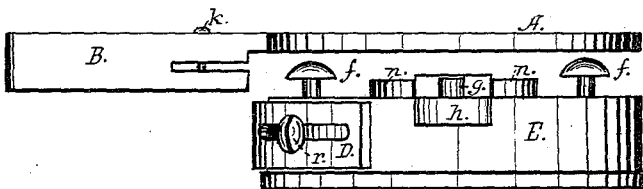


Fig. 2.



Witnesses;  
Albert Kern  
Jacob H. Lutz

Inventor;  
Richard C. Nugent  
by his Atty.  
Chas. M. Peck

# UNITED STATES PATENT OFFICE

RICHARD C. NUGENT, OF DAYTON, OHIO, ASSIGNOR OF ONE-HALF HIS RIGHT TO GEORGE W. HOGLEN AND CHARLES E. PEASE, OF SAME PLACE.

## IMPROVEMENT IN SCREW-CUTTING DIES.

Specification forming part of Letters Patent No. 166,716, dated August 17, 1875; application filed April 2, 1875.

*To all whom it may concern:*

Be it known that I, RICHARD C. NUGENT, of Dayton, in the county of Montgomery and State of Ohio, have invented new and useful Improvements in Screw-Cutting Dies; and I do hereby declare that the following is a full and exact description of the same.

This invention relates to that class of dies for screw-cutting, designed as tools for use in a lathe, and provided with radially-moving chasers; and it consists in the novel combination and arrangement of its parts, as will be herewith explained.

In order to enable others skilled in the art to which my invention appertains to make and use it, I would thus proceed to describe its construction and operation, referring to the accompanying drawing, in which—

Figure 1 is a face view of my improved die. Fig. 2 is a representation of the same in a horizontal position, with the face-plate raised above the body of the die.

E represents the body of the die, slotted or recessed radially upon its face, to admit the chasers *h*, which are provided with vertically-projecting studs *g*, working in eccentric slots in the face-plate A. The face-plate, in addition to the ordinary eccentric slots for actuating the cutting-jaws, has two or more circumferential slots, terminating in circular openings *m* at their opposite ends, just large enough to admit the heads of the screws *f*. This plate has a handle, B, extending radially from it, and provided with a spring lever or arm, C, pivoted in the handle at *k*. A projecting shoulder, *e*, upon the extremity of the arm C, acts as a latch to fit in a transverse slot in the plate D upon the side of the body E, and adjustable by means of the set-screws *r*, working in horizontal slots.

The body of the die may be attached to the lathe by the ears *i*, or in any convenient manner.

To use my improved die, the chasers are placed in their recesses, and the plate A

brought against the body of the die in such a manner that the heads of the screws *f* pass through the circular openings *m*, and the studs *g* enter the eccentric slots. The face-plate is then turned upon the projecting rim *n*, and the heads of the screws enter the circumferential slots, and project over their edges. In this manner the plate is securely held upon the body of the die, but is free to be turned in order to adjust the cutters. The latch *e* slides upon the plate D until it reaches the transverse slot, into which it is thrown, and held by the spiral spring *d*, thus rigidly securing the cutting-jaws.

This arrangement of the face-plate allows it to be removed without loss of time, and re-adjusted whenever it may be desirable to change the cutters for any purpose. As the plate D is also adjustable, the position of the slot with regard to the die can be changed at will, and the point at which it may be wished to hold the chasers thus be regulated.

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

1. The face-plate A, provided with the circumferential slots and circular openings *m*, handle B, and spring-lever C, substantially as described.

2. The adjustable plate D, provided with a transverse slot, in combination with the body E, spring-lever C, handle B, and face-plate A, substantially as described, and for the purpose specified.

3. The improved screw-cutting device, constructed substantially as set forth, and consisting of the body E, screws *f*, face-plate A, handle B, spring-lever C, and adjustable plate D, as and for the purpose specified.

Witness my hand this 17th day of March, A. D. 1875.

RICHARD C. NUGENT.

Witnesses:

E. THOMPSON,  
CHAS. M. PECK.