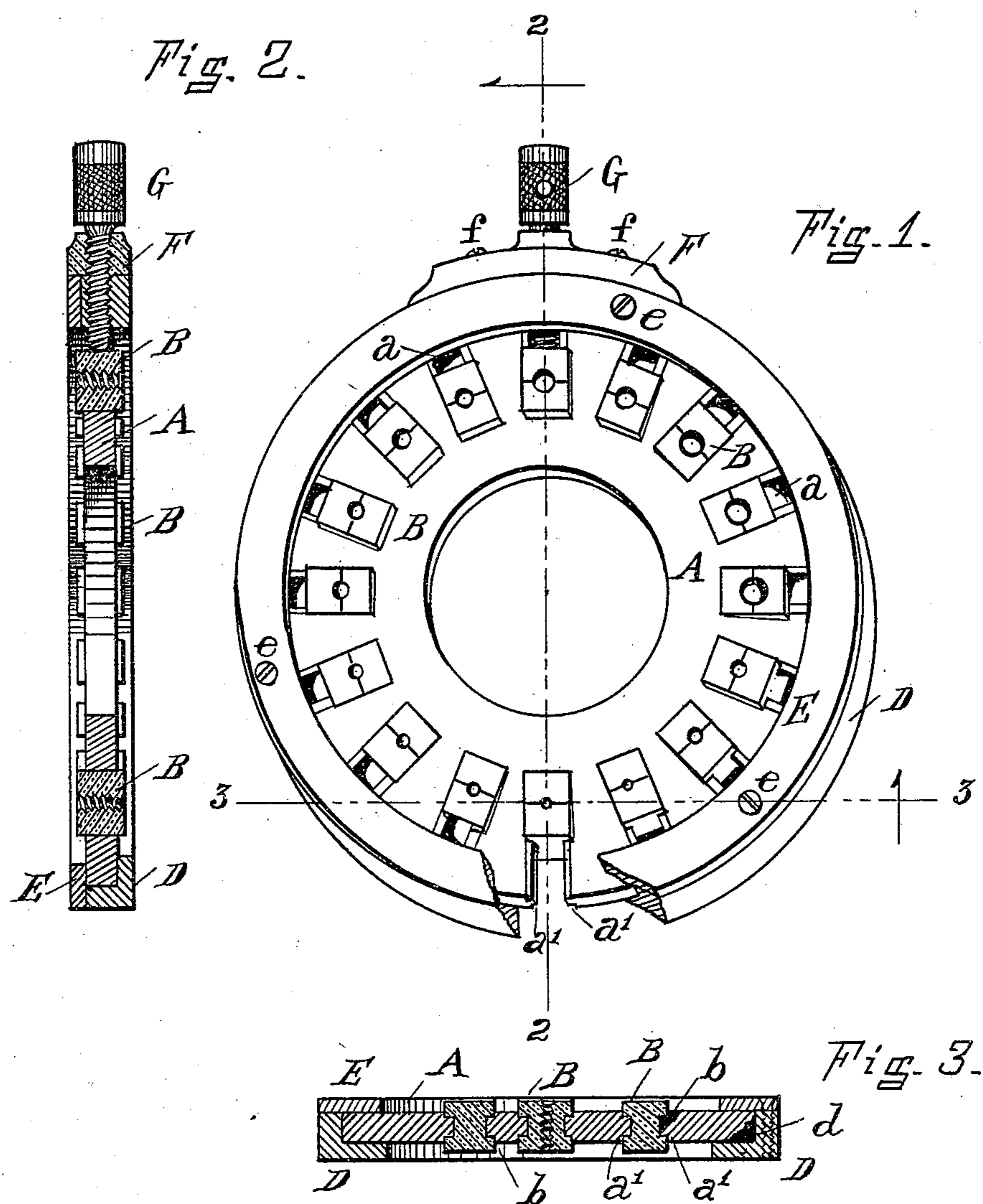


(No Model.)

F. R. COATS.
DIE STOCK.

No. 556,304.

Patented Mar. 10, 1896.



Witnesses.

Tad A. Bailey
James Brewer.

Inventor.

FRED R. COATS.
by Atty N. DuBois.

UNITED STATES PATENT OFFICE.

FRED R. COATS, OF SPRINGFIELD, ILLINOIS.

DIE-STOCK.

SPECIFICATION forming part of Letters Patent No. 556,304, dated March 10, 1896.

Application filed September 14, 1895. Serial No. 562,566. (No model.)

To all whom it may concern:

Be it known that I, FRED R. COATS, a citizen of the United States, residing at Springfield, in the county of Sangamon and State of Illinois, have invented a certain new and useful Die-Stock, of which the following is such a full, clear, and exact description as will enable those skilled in the art to which it pertains to make and use my said invention.

10 The purpose of my invention is to provide a holder or stock adapted to hold dies such as are commonly used by machinists in the cutting of screw-threads, said die-stock being so constructed and arranged that any one of the
15 dies in the stock may be conveniently and quickly brought into use.

My invention consists of certain novel features of construction and combinations of parts, illustrated in the annexed drawings, to
20 which reference is hereby made, and hereinafter particularly described and specifically claimed.

In the drawings, Figure 1 is a perspective view of the complete device, a portion of the
25 rings being broken away in order to more clearly illustrate the interior construction. Fig. 2 is a vertical section on the line 2 of Fig. 1. Fig. 3 is a vertical section on the line 3 of Fig. 1.

30 Similar letters of reference designate like parts in all of the views.

The central plate A has radial notches *a*, in which dies B fit. The dies, which are of the usual form, have channels *b* in their sides.
35 When the dies are in position in the notches the side walls of the notches extend into the channels in the dies, as clearly shown in Fig. 3.

On the upper and under sides of the side walls of the notches *a* ledges *a'* are formed on the plate, for a purpose which I will now explain.
40

In the construction of the device the center plate A is punched or drop-forged, so as to form at one operation the central opening
45 and all of the notches in the plate. When the notches are punched out more or less of a bur is formed on the side walls of the notches.

It is important that the die should fit snugly and slide smoothly in the notches. In order
50 to remove any roughness or bur on the side walls of the notches, I mill them away, so as

to form the ledges *a'*, which fit smoothly in the channels in the dies.

The radial depth of the notches *a* is somewhat greater than the length of the dies in
55 order to admit of the adjustment of the members of the die relative to each other and in order that the dovetail parts of the plate A between the notches may project beyond the die and into the lower ring, as hereinafter explained.
60

The lower ring, D, has an internal circumferential ledge *d*, and the center plate A rests and turns on the ledge *d*. The upper ring, E, fits on top of the ring D and is connected
65 therewith by screws *e* in such manner that the plate A may turn between the rings.

The center plate A and the rings D and E are preferably made of nickel, but may be made of other suitable material. The screw-
70 block F is preferably of steel and is connected with the ring D by screws *f*.

A cylindrical screw G, which has a milled or knurled head, fits in a female screw in the block F, and the end of the screw abuts against
75 the contiguous die.

By loosening the screw G it is obvious that the plate may be turned to bring any one of the dies in position adjacent to the end of the screw and that by tightening the screw the
80 members of the die may be adjusted relative to each other, so as to facilitate the cutting of a screw in the usual well-known manner.

The operation of the device is obvious from the description.
85

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

1. A die-stock consisting essentially of a center plate provided with radial notches
90 adapted to receive dies; a lower ring provided with an internal ledge supporting said notched central plate; an upper ring connected with said lower ring and adapted to retain said notched plate in position thereon, and an adjusting-screw on said lower ring adapted to engage with dies in the notches of the center plate; as set forth.
95

2. In a die-stock the combination of a center plate provided with radial notches, and
100 having ledges on the side walls of said notches; a lower ring provided with an internal cir-

cumferential ledge adapted to support said
notched center plate; an upper ring connect-
ed with said lower ring and adapted to retain
said notched plate thereon, a screw-block at-
5 tached to said lower ring and a screw fitting
in said screw-block and adapted to engage
with dies in the notches of said center plate;
as set forth.

In witness whereof I have hereunto signed
my name, at Springfield, Illinois, this 10th day 10
of September, A. D. 1895.

FRED R. COATS.

Witnesses:

R. H. McANULTY,
TAD BAILEY.