

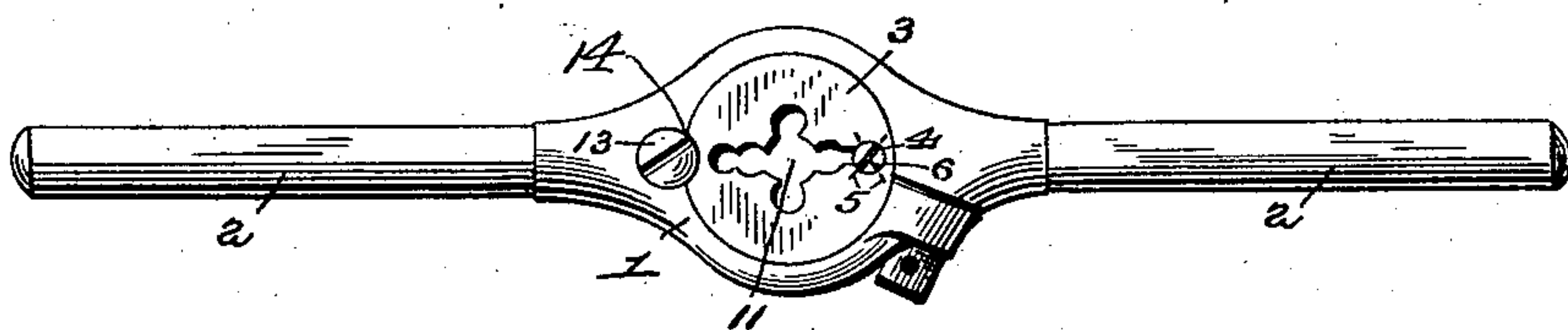
(No Model.)

R. S. BASCOM & N. E. MARTIN.  
DIE AND DIE STOCK.

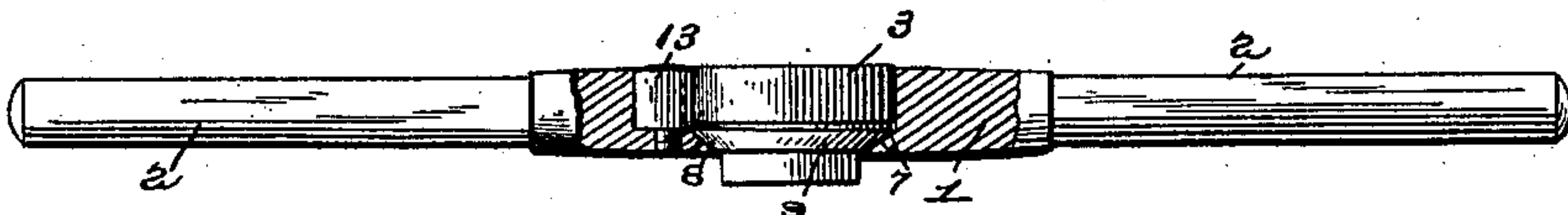
No. 592,044.

Patented Oct. 19, 1897.

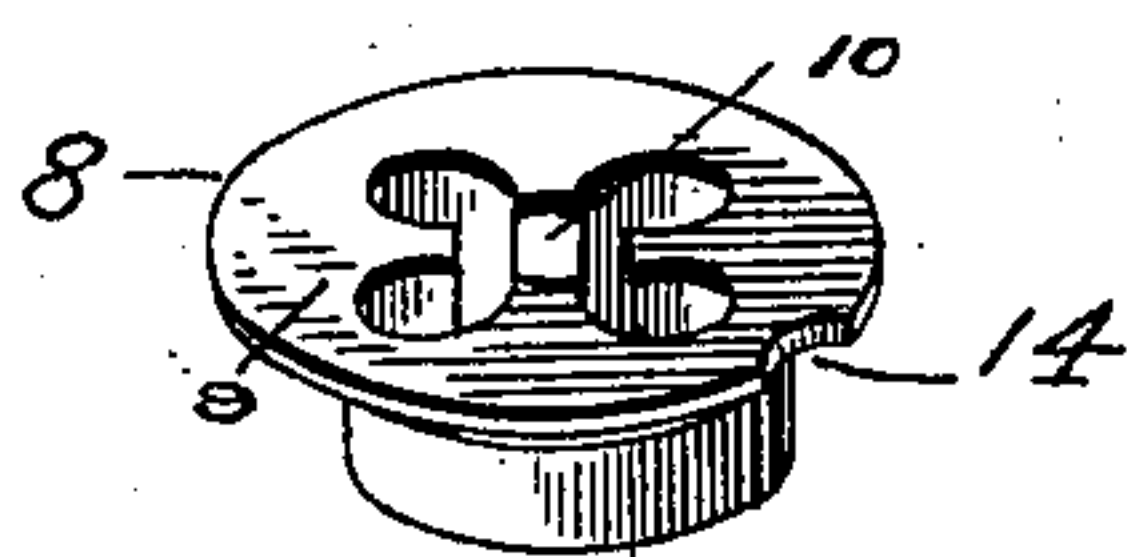
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



*Attest*  
*Walter Donaldson*  
*C. S. Middleton*

*Inventors:*  
*Rollin S. Bascom*  
*Nathan E. Martin*  
*by J. L. Middleton*

# UNITED STATES PATENT OFFICE.

ROLLIN S. BASCOM AND NATHAN E. MARTIN, OF GREENFIELD,  
MASSACHUSETTS.

## DIE AND DIE-STOCK.

SPECIFICATION forming part of Letters Patent No. 592,044, dated October 19, 1897.

Application filed January 11, 1897. Serial No. 618,839. (No model.)

*To all whom it may concern:*

Be it known that we, ROLLIN S. BASCOM and NATHAN E. MARTIN, citizens of the United States, residing at Greenfield, in the county of Franklin and State of Massachusetts, have invented certain new and useful Improvements in Dies and Die-Stocks, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to dies for thread-cutting, and the object thereof is to provide means for increasing the accuracy and efficiency of the work performed as well as to increase the rapidity for doing the same.

The invention consists in the arrangement and construction of parts hereinafter described, and particularly pointed out in the claims.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of the invention. Fig. 2 is a sectional view of the same. Fig. 3 is a detail view.

The die-stock is of substantially the ordinary elastic construction, being provided with the central portion 1, having the adjustable socket therein to receive the die, and the diametrically-extending handles 2. The die proper, 3, is of the well-known type provided with a tapered screw-threaded plug 4 for expanding the same. This adjustment of the die heretofore has been measured entirely by the eye or by suitable auxiliary instruments, which necessitated a waste of time. To overcome this objection, we arrange around the socket which receives the screw-threaded plug 4 a scale 5 and place a niche in the head of the plug to act as a pointer to register with one of the degrees of the scale. Thus in adjusting the plug the exact amount of contraction or expansion given to the die is at once apparent.

Around the bottom of the die-socket a narrow flange 7 is extended inwardly, this flange having an upper inclined or beveled face, which provides a seat for a corresponding flange 8, formed on the guide-plate 9. This flange 8, which extends outwardly from the plate, is of slightly less diameter than the minimum diameter of the die-socket, and thus the plate

is held loosely therein. A guide-opening 10, extending centrally through this plate, corresponding to the thread-cutting opening 11 in the die, is adapted to exactly aline therewith. This alinement is obtained by fixing a stud 13 transversely in the part 1 adjacent to the die-socket, with a portion of the side thereof projected into said socket. The flange 8 of the guide-plate and the die have crescent-shaped recesses 14 cut in their outer wall, which fit over this projecting part of said stud, and thus the die and guide-plate are held in vertical alinement when first inserted in the die-socket. After the guide-plate, which is inserted first in the die-socket and has its flange resting and supported on the flange 7, is in position, the die proper is inserted and rests upon this plate. The socket is then contracted to clamp the die, and this action presses the flange 7 against the flange 8 and forces the flat face of the plate 9 firmly against the face of the die, insuring and necessitating the opening 10 extending in perfect alinement with the opening 11, so that the object to be threaded will be accurately guided into the die.

We claim—

1. The combination with the die-stock having the die-socket, of a die held therein having a recess in the outer wall thereof, a guide-plate having a corresponding recess and a stud extending transversely of said stock adjacent to said socket said stud having a portion thereof projected into said socket and adapted to fit the recesses in said die and plate, substantially as described.

2. In combination with the die-stock having a socket, with a beveled flange extending inwardly around the edge of said socket, the die, the guide-plate having a correspondingly beveled flange adapted to be seated on the flange of said die-stock, substantially as described.

3. The combination with the die-stock having an adjustable socket, of an annular flange 7 having a beveled upper face extending into said socket, the die, and the guide-plate having an outwardly-extending annular flange 8 of less diameter than said socket, said flange having a beveled face corresponding to the



bevel-face of the flange 7 and adapted to be seated thereon, substantially as described.

4. The combination with the die-stock having an adjustable socket of an annular flange 5 7 having a beveled upper face extending into said socket, the die, and the guide-plate having an outwardly-extending annular flange 8 of less diameter than said socket, said flange having a beveled face corresponding to the 10 bevel-face of the flange 7 and adapted to be

movably seated thereon, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

ROLLIN S. BASCOM.  
NATHAN E. MARTIN.

Witnesses:

DANA MALONE,  
LESLIE H. STREETER.