

G. R. STETSON.
Screw-Cutting Dies.

No. 203,956.

Patented May 21, 1878.

Fig. 1

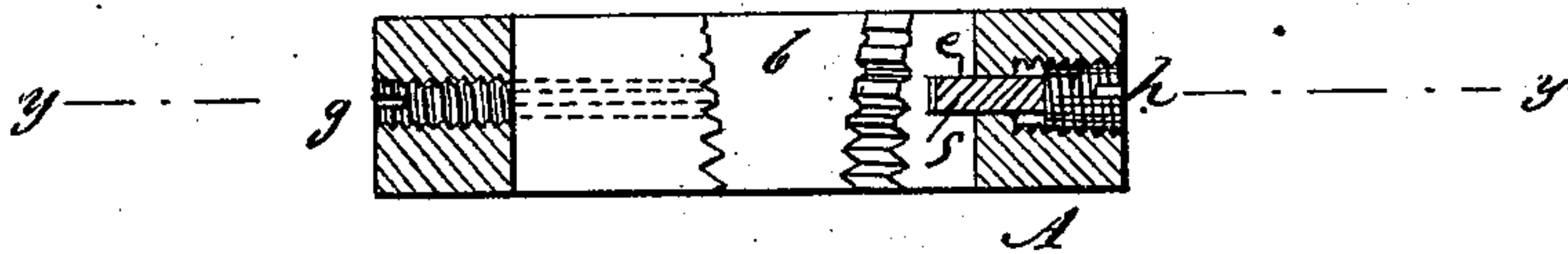


Fig. 2.

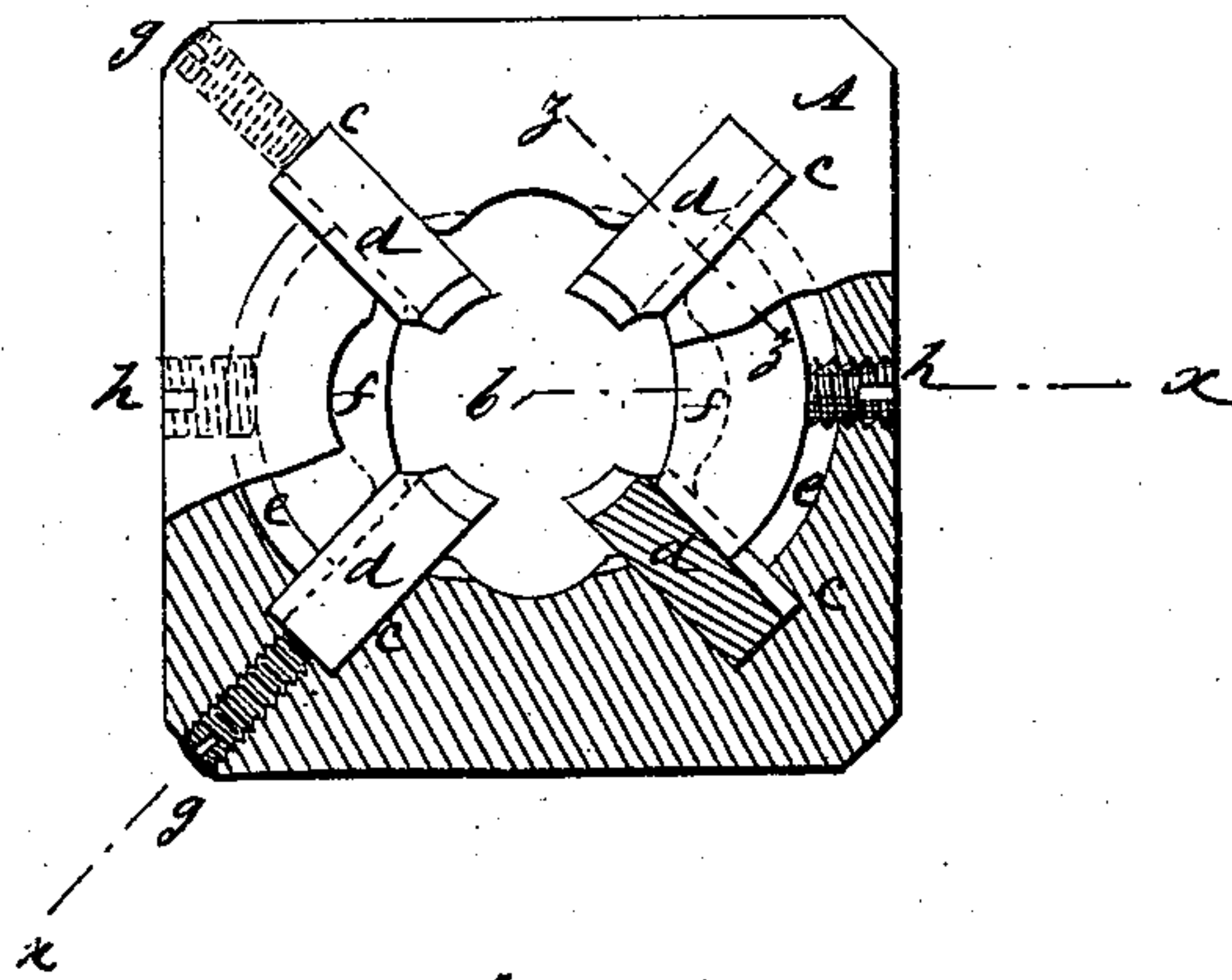
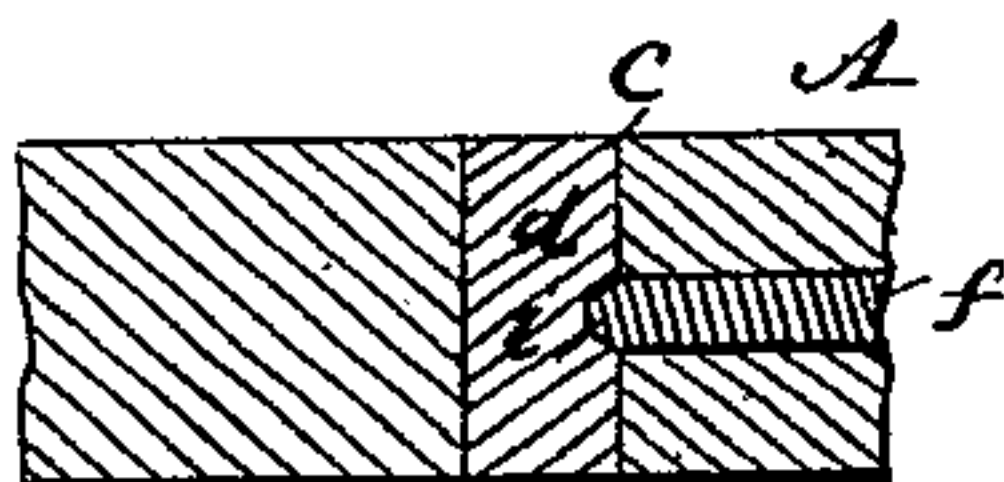


Fig. 3



WITNESSES:

C. Neveu
C. Sedgwick

INVENTOR:

G. R. Stetson
BY *Mumford*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

GEORGE R. STETSON, OF NEW BEDFORD, MASSACHUSETTS, ASSIGNOR TO HIMSELF AND MORSE TWIST DRILL AND MACHINE COMPANY, OF THE SAME PLACE.

IMPROVEMENT IN SCREW-CUTTING DIES.

Specification forming part of Letters Patent No. **203,956**, dated May 21, 1878; application filed April 26, 1878.

To all whom it may concern:

Be it known that I, GEORGE R. STETSON, of New Bedford, in the county of Bristol and State of Massachusetts, have invented a new and Improved Screw-Cutting Die, of which the following is a specification:

Figure 1 is a transverse section taken on line *x x* in Fig. 2. Fig. 2 is a plan view taken, partly in section, on line *y y* in Fig. 1. Fig. 3 is a detail sectional view taken on line *z z* in Fig. 2.

Similar letters of reference indicate corresponding parts.

My invention relates to dies for cutting screw-threads; and it consists in a holder formed of a solid piece of metal, having a central aperture for receiving the article to be threaded, and slots for receiving the chasers or thread-cutters, and having recesses for containing fastening-plates, which engage grooves formed in the sides of the chasers.

In the drawing, A is a block or holder, of iron or steel, having a central aperture, *b*, for receiving the article to be threaded, and having four radial slots, *c*, to which are fitted the dies or chasers *d*.

At diametrically-opposite sides of the central aperture there are two slots, *e*, which are parallel with the sides of the block or holder, and extend from one slot *c* to another.

In the slot *e* is placed a thin piece of metal, *f*, which conforms to the shape of the slot, and

has its ends cut at proper angles to each other. In one side of each chaser there is a groove, *i*, and the grooves in each pair of chasers face the intervening piece *f*, and receive the ends of the said piece when the chasers are fastened in the slots *c*.

A screw, *g*, extends from one or more of the corners of the die or block to the slot *e*, and bears against the plain end of the chaser which it is designed to adjust.

In opposite sides of the block, and opposite the middle of the slots *e*, there are screws *h*, which bear against the pieces *f* and force them against the chasers, clamping them securely in their slots *c*. The chasers may be easily removed by retracting the screws *h* and forcing back the pieces *f*.

My improved die is intended for threading pipe-bolts, &c., and may be readily adjusted, repaired, or sharpened.

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

The chasers *d*, having side slots, the fastening-pieces *f*, and the slotted block or body A, having the adjusting and binding screws *h*, in combination, substantially as shown and described.

GEORGE RIPLEY STETSON.

Witnesses:

GIDEON ALLEN, Jr.,
DANL. W. CORY.