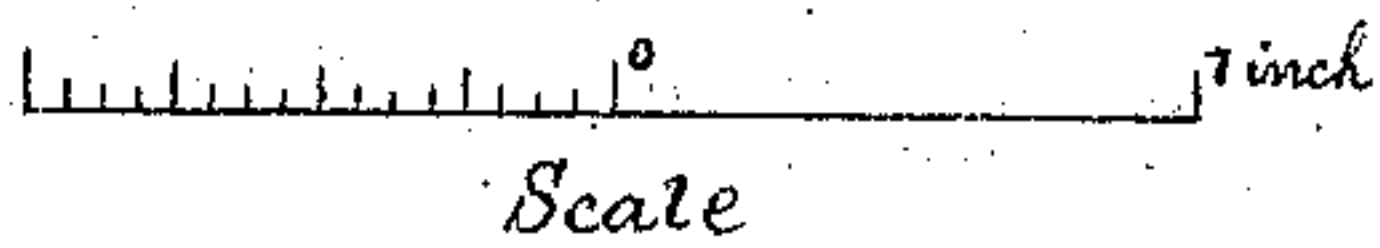
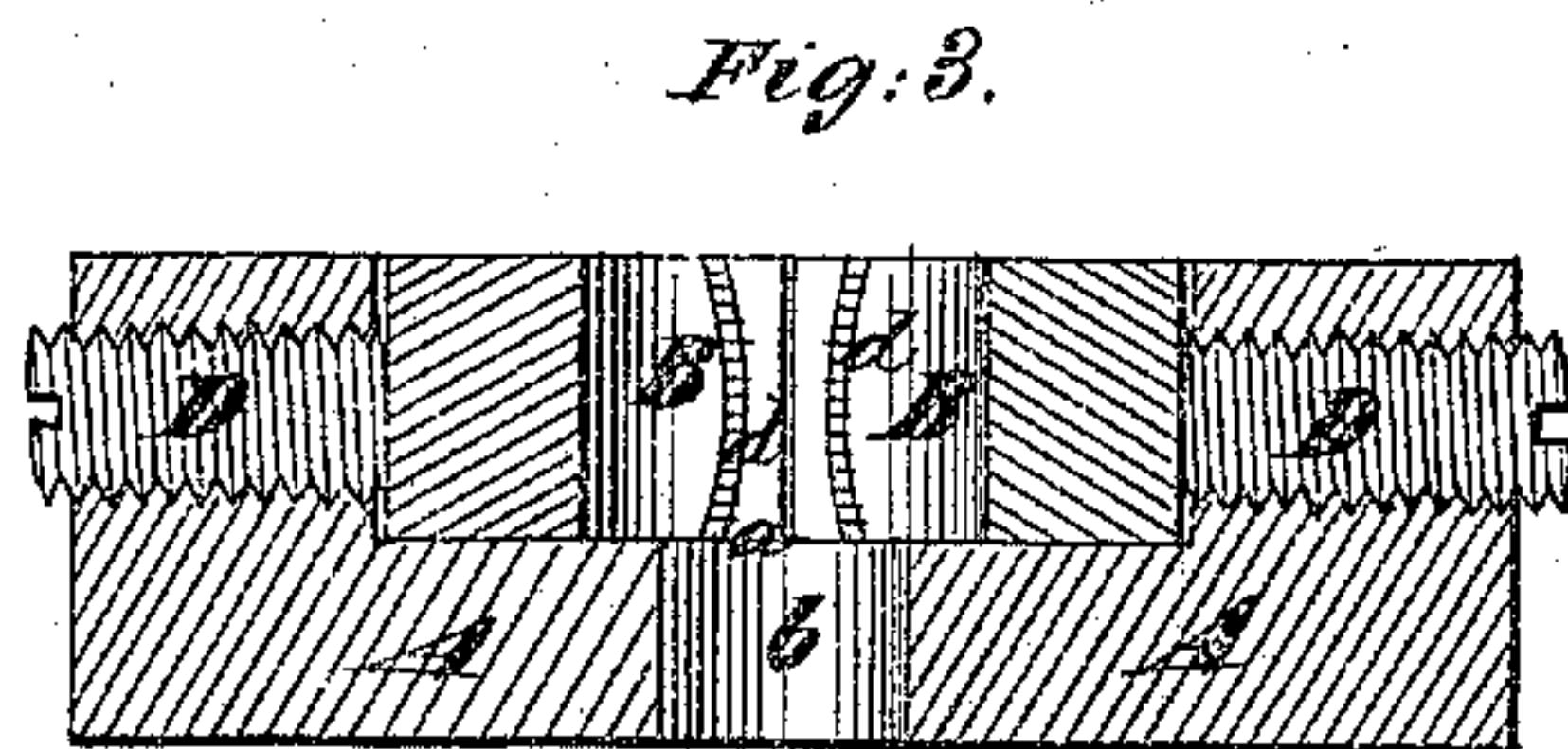
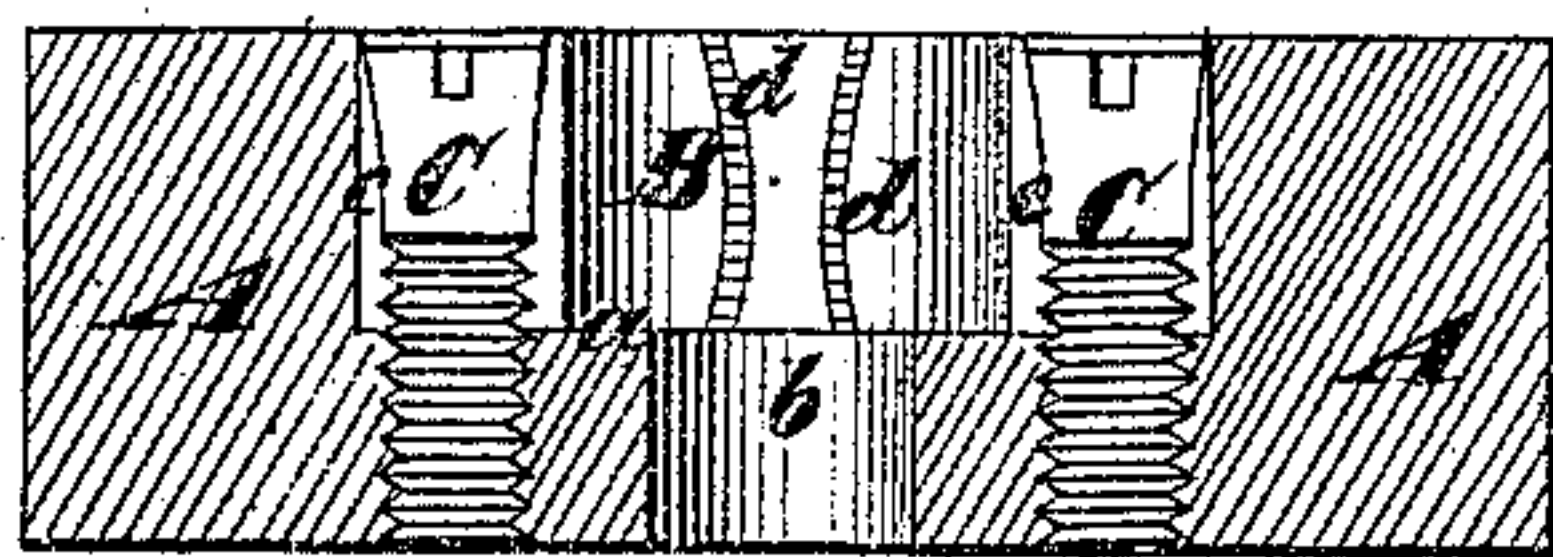
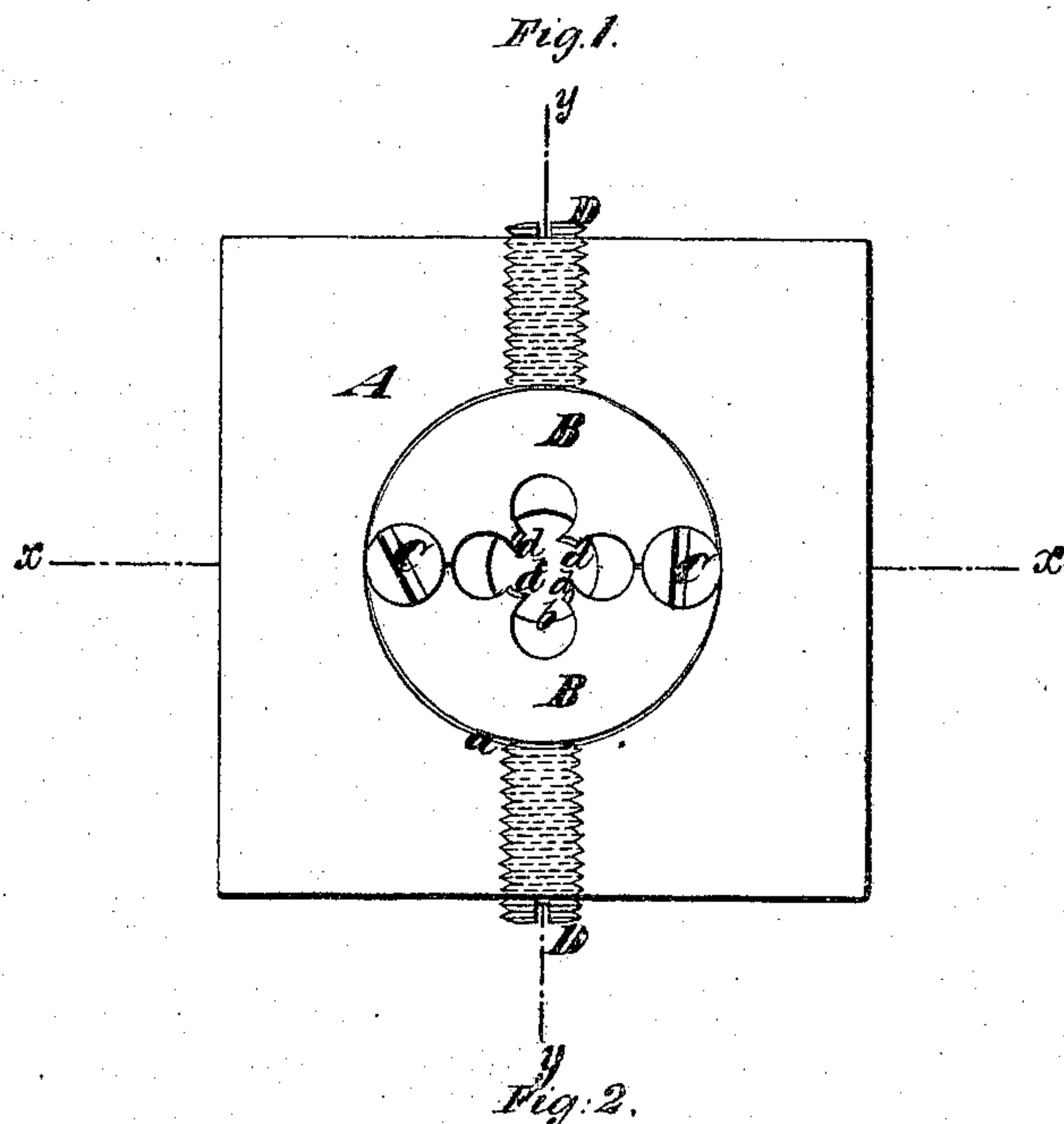


JOHN J. GRANT.

Improvement in Dies for Cutting Screw Threads.

No. 120,266.

Patented Oct. 24, 1871.



Witnesses:
Fred Haymes
J. W. Coombs

John J. Grant
per J. W. Coombs
Attorney

UNITED STATES PATENT OFFICE.

JOHN J. GRANT, OF GREENFIELD, MASSACHUSETTS.

IMPROVEMENT IN DIES FOR CUTTING SCREW-THREADS.

Specification forming part of Letters Patent No. 120,266, dated October 24, 1871.

To all whom it may concern:

Be it known that I, JOHN J. GRANT, of Greenfield, in the county of Franklin and State of Massachusetts, have invented a new and useful Improvement in Dies for Cutting Screw-Threads; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing forming part of this specification.

This invention consists in the arrangement within the die-stock or holder, and between the dies, of taper or taper-headed adjusting-screws for setting out the dies, such screws operating, in combination with external set-screws, to obtain a perfect and secure adjustment of the dies.

In the accompanying drawing, Figure 1 is a plan of the die. Fig. 2 is a transverse section of the same taken at the dotted line *x x* in Fig. 1; and Fig. 3 is another transverse section taken at the line *y y* in Fig. 1.

Similar letters of reference indicate corresponding parts in all the figures.

A is the die-stock or holder, which is of rectangular form, having in the middle of its outer side a cavity, *a*, represented of circular form, for the reception of the dies B B. In the bottom of said recess is a hole, *b*, that extends right through the stock to permit the passage of the cut screw from the die. The dies B B are of a size and form externally to fit easily into the cavity *a*, and except for the recesses *c c* provided on their opposite or adjacent faces at the sides of the cut-

ting portions *d d* for the reception of the taper or conical-headed screws C C, they are or may be like the dies in common use for cutting screw-threads. The screws C C have their outer portions or heads made taper in an inward direction, and they fit within the recesses *c c* in the dies B B, which are of corresponding form, and screw on the stock A. D D are the screws that form the external adjustment. They screw into the sides of the stock A and bear against the middle portions of the exterior or circular portion of the dies B B.

To adjust the dies to enable screws of different depths or sizes to be cut, the conical-headed screws C C are screwed either further into the stock to separate the dies, or from the stock to allow the set-screws D D to force them toward each other. The set-screws D D are screwed up to hold the dies in any position to which they are adjusted by the screws C C.

What is claimed and desired to be secured by Letters Patent is—

The combination, with the stock and dies and the set-screws or equivalent external adjustment of the dies, of the interposed taper or taper-headed screws, applied to operate substantially as herein specified.

JOHN J. GRANT.

Witnesses:

HENRY T. BROWN,
FRED. HAYNES.

(14)