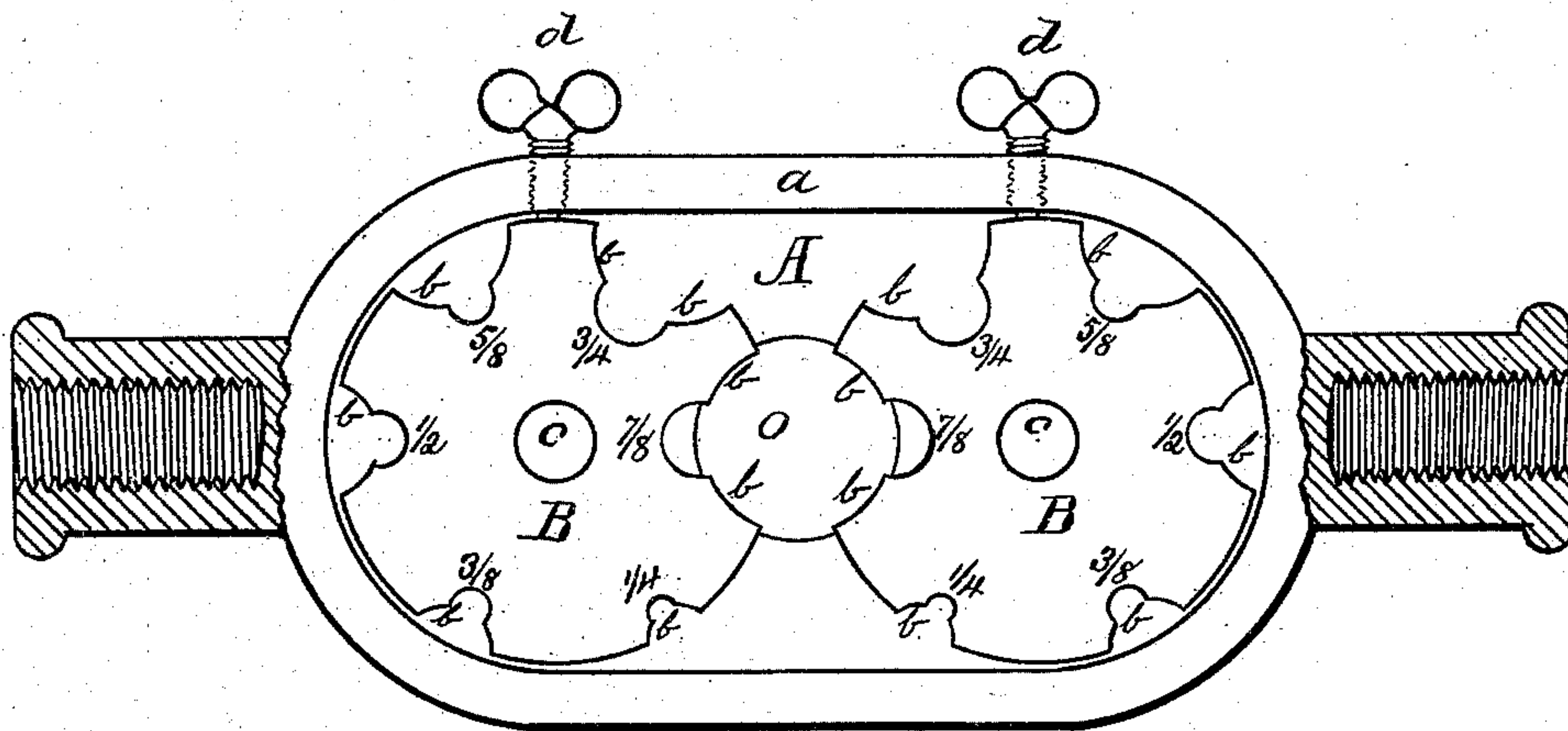


(No Model.)

J. SHERMAN.
SCREW CUTTING DIE.

No. 252,060.

Patented Jan. 10, 1882.



Witness;

A. B. Allen

E. W. Seirb

Inventor;

John Sherman.

By Geo. W. Tibbitts Atty

UNITED STATES PATENT OFFICE.

JOHN SHERMAN, OF CLEVELAND, OHIO, ASSIGNOR OF ONE-HALF TO
LEONARD H. BURT, OF SAME PLACE.

SCREW-CUTTING DIE.

SPECIFICATION forming part of Letters Patent No. 252,060, dated January 10, 1882.

Application filed January 17, 1881. (No model.)

To all whom it may concern:

Be it known that I, JOHN SHERMAN, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and
5 useful Improvements in Machines for Threading Bolts, which improvements are fully set forth in the following specification and accompanying drawing, in which the figure is a face view of a hand-tool for threading bolts containing my improvements.

The nature and objects of these improvements will fully appear in the subjoined description, when considered in connection with the accompanying drawing, which objects are
15 to supply a ready, simple, and economical means of setting and adjusting the cutting-dies for cutting different sizes of bolts without removing the dies. This I accomplish by the use of circular revolvingly-adjustable cutting-dies, as hereinafter described and claimed.

A is a plate, oblong in form, having rounded ends and a flange, *a*. This is the base or foundation, to which the cutting-dies B B are fixed. In the drawing it is seen provided with sockets
25 at the ends for attaching handles. The cutting-dies B B consist of steel disks having circular recesses made in their periphery, said recesses having thread-cutting teeth *b b*, arranged so as to present two cutting-edges in
30 each recess to the blank-bolt. These recesses vary in size, or, rather, are graded in size, whereby a number of sizes of cutting-dies are provided in one disk. The disks have a central opening or eye for placing them on pins *c*
35 *c* on the plate A, the said plate A holding a

pair of said disks. The said central opening or eye and the pins *c c* may be dispensed with in the hand-machine, as the disks can be fitted into a round recess in the plate A, in which case the pins would not be necessary, the said
40 openings and pins being required only when the said disks are attached to the levers in a power-machine. In the flange *a* of the plate A are placed two thumb set-screws, *d d*, the points of which enter holes in the edge of the
45 said disks, for securing them in place. The plate A has a central opening, O, through which the bolt passes as the cutting proceeds. These cutting-disks are readily adjusted to position by simply turning them on their pins to
50 bring the size of cutting-recesses required together at the center, and each pair of disks having half a dozen or so of cutting-recesses enables the changing from one size to another a very simple and easy operation. The said
55 disks are also easily removable for replacing them with others having different sizes of cutting threads. They are so simple that any one can easily set or adjust them.

Having described my invention, I claim— 60

The revolvingly-adjustable disks B B, having the several different-sized cutting-recesses provided with cutting-teeth *b b* in their periphery, in combination with the plate A, having set-screws *d d* and sockets for handles, 65 substantially as described.

JOHN SHERMAN.

Witnesses:

GEO. M. TIBBITTS,
E. W. LAIRD.