

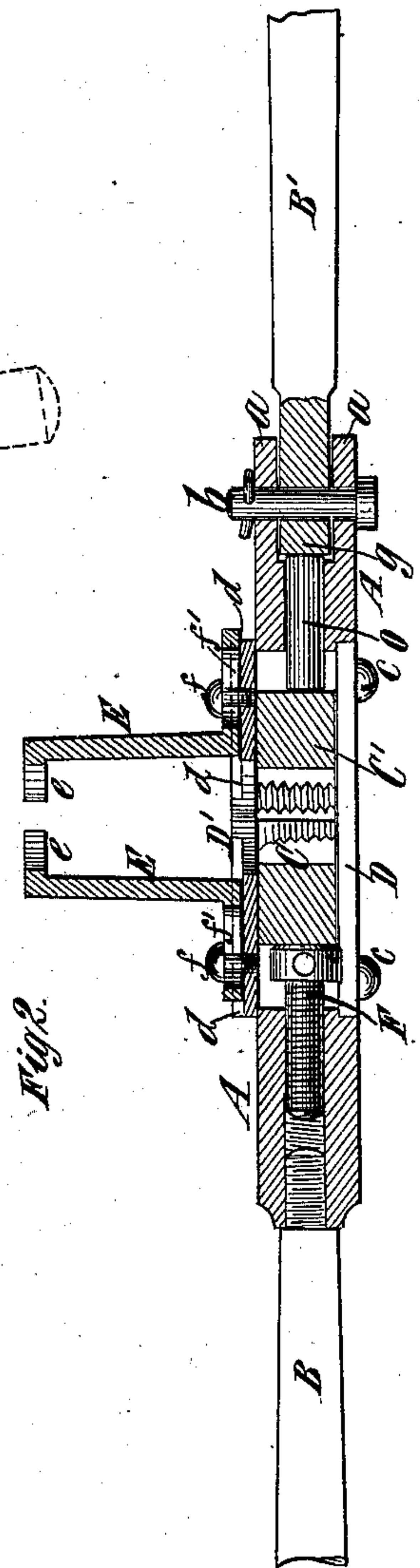
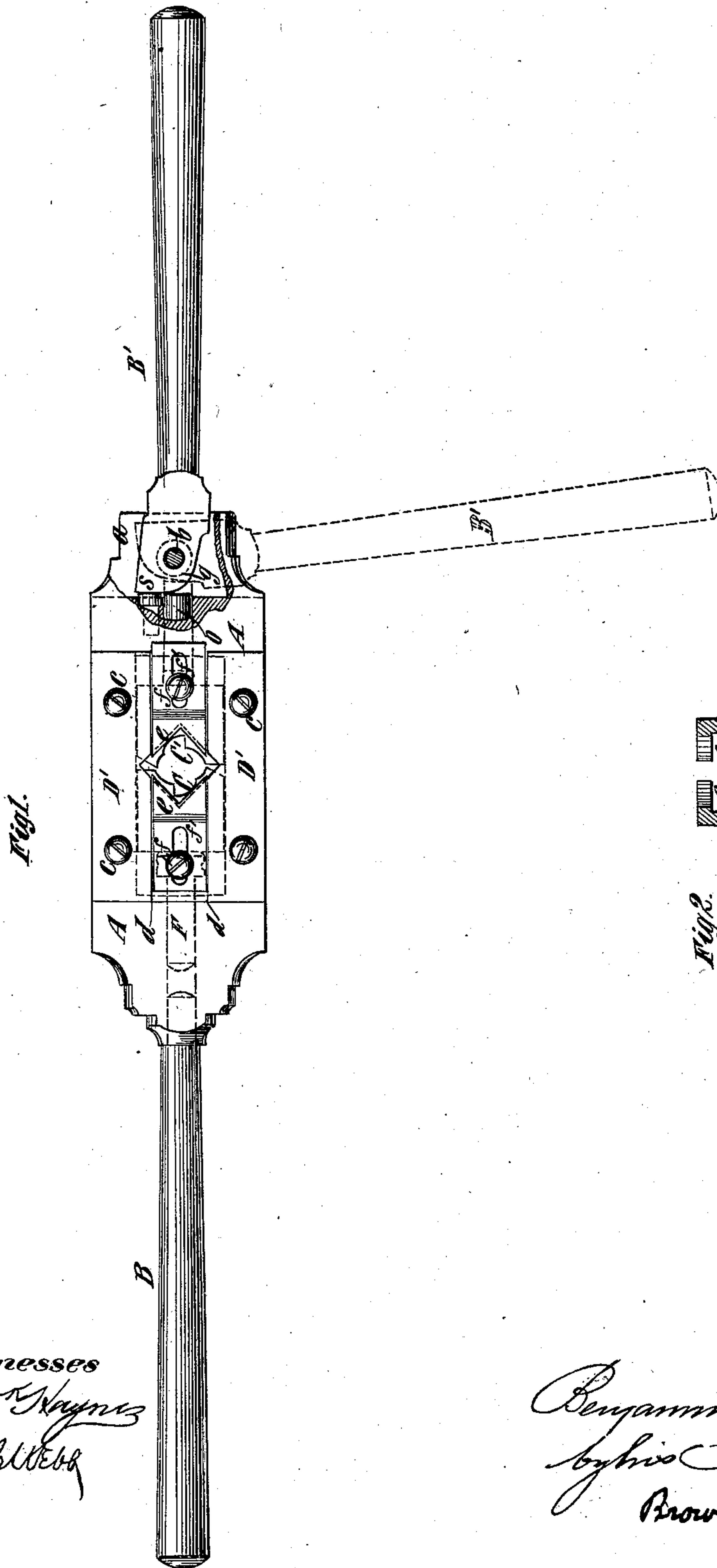
(No Model.)

B. L. WALKER.

DIE STOCK.

No. 258,960.

Patented June 6, 1882.



Witnesses
Fred Kaysen
Abel Webb

Inventor
Benjamin L. Walker
by his Attorneys
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UNITED STATES PATENT OFFICE.

BENJAMIN L. WALKER, OF SING SING, NEW YORK, ASSIGNOR TO WALKER, CADDY & CO., OF SAME PLACE.

DIE-STOCK.

SPECIFICATION forming part of Letters Patent No. 258,960, dated June 6, 1882.

Application filed January 15, 1881. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN L. WALKER, of Sing Sing, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Die-Stocks, of which the following is a specification.

My invention relates to die-stocks in which one of the handles is pivoted so that it may be swung into and out of line with the other handle, and is provided with a cam-face, which serves to move or force one die toward the other when the pivoted handle is swung into line with the fixed handle.

The invention consists in the combination, with a die-stock of the kind above described and its dies, of a set-screw for adjusting one die and a push pin or plunger through which the cam-face of the pivoted handle acts upon the other die, as particularly hereinafter described and claimed.

In the accompanying drawings, Figure 1 represents a plan of the under side of a stock and dies embodying my invention, a portion being broken away; and Fig. 2 represents a longitudinal section thereof, the under side of the stock and dies being uppermost.

Similar letters of reference designate corresponding parts in both the figures.

A designates the stock piece or body, and B B' represent the handles whereby the same may be turned. The handle B is screwed into or otherwise rigidly fixed in one end of the stock piece or body, while the other handle, B', is flattened, so as to fit between lips or lugs *a* on the other end of said stock piece or body, and is pivoted therein by a bolt or pin, *b*, inserted transversely through said handle, for a purpose hereinafter described.

C C' designate dies, which fit in an opening in the piece or body A, and are secured therein by top and bottom plates, D D', connected to opposite faces of the piece or body A by screws *c*, the top one, D, being removed when the dies are to be taken out and others substituted.

In the under surface of the plate D' are grooves or slideways *d*, wherein are fitted arms or pieces E E, which project downward from the piece or body A and are provided at their lower ends with notched lips *e*, projecting toward each other. The arms or pieces are

adapted to be adjusted toward and from each other, thus bringing the notched lips *e* at a suitable distance apart to receive a rod or pipe of any ordinary size between them, and each arm or piece is secured or clamped upon the plate D' by screws *f*, which pass through slots *f'* in the arms or pieces E E.

The plate D' may be considered as a part of the stock piece or body A, so far as the arms or pieces E E are concerned.

It is necessary that some means be employed for varying the distance between the dies C C', so that a thread may be increased in depth, and the means here shown consist in a set-screw, F, screwed into a hole in the piece or body A and bearing against the die C. By turning the screw in one direction the said die may be advanced toward the die C', lessening the distance between them, and by turning it in the other direction the distance between the dies when cutting is increased.

The pivoted handle B, with a cam-face, *g*, which, as the said handle is turned toward a position in line with the rigid handle B, bears upon a push-pin or plunger, *o*, and through it forces the die C' toward the die C and holds it fixed while cutting. The end of the handle B has a square corner at *s*, which bears upon the piece or body A, as seen in full outline in Fig. 1, while turning the stock to cut a screw-thread, and thus forms a stop for preventing the pivoted handle from being moved past a position in line with the rigid handle. After cutting a thread the handle is moved toward and into the position shown in dotted outline in Fig. 1, thus releasing the die C' and permitting it and the push-pin or plunger *o* to move outward away from the die C sufficiently to allow the stock to be raised or moved bodily and without turning off from the screw-threaded rod or pipe. It will thus be seen that before the stock can be turned to cause the dies to cut the pivoted handle must be moved into a position in line with the rigid handle, while the first attempt to turn the stock in the opposite direction will swing the pivoted handle out of line with the rigid handle and release the dies from the screw-thread cut by them.

I am aware that die-stocks have frequently

had one handle screw-threaded and screwed into the body of the stock, thus providing for advancing or releasing one of the dies by turning the handle in one or the other direction upon its axis.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of the stock piece or body A, the dies C C', the set-screw F, for adjusting

the die C, the rigid handle B, the pivoted handle B', provided with a cam-face, *g*, and a push-pin or plunger, *o*, through which said cam-face acts upon the die C', substantially as and for the purpose specified.

BENJN. L. WALKER.

Witnesses:

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