

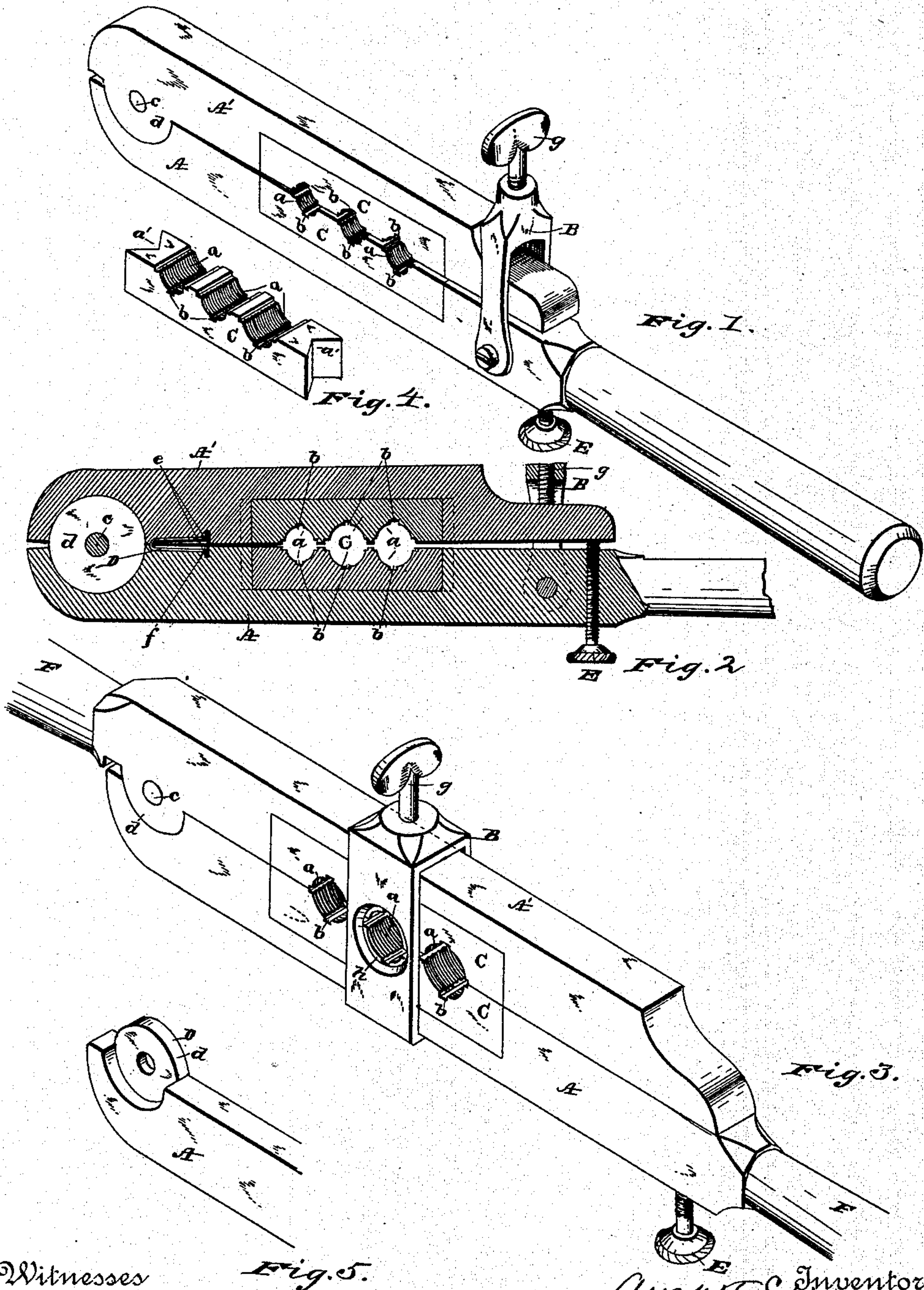
(No Model.)

A. EFFINGER & L. L. DEWEESE.

DIE STOCK.

No. 413,317.

Patented Oct. 22, 1889.



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UNITED STATES PATENT OFFICE.

AUGUST EFFINGER AND LEVI L. DEWEESE, OF CANTON, OHIO.

DIE-STOCK.

SPECIFICATION forming part of Letters Patent No. 413,317, dated October 22, 1889.

Application filed February 28, 1889. Serial No. 301,535. (No model.)

To all whom it may concern:

Be it known that we, AUGUST EFFINGER and LEVI L. DEWEESE, citizens of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Screw-Cutting Plates; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon, in which—

Figure 1 is an isometrical view. Fig. 2 is a longitudinal section. Fig. 3 is an isometrical view showing slight modification of clamp and a double handle. Fig. 4 is a detached view of one of the dies. Fig. 5 is a detached view showing one of the bars and construction of the hinge.

The present invention has relation to screw-cutting plates; and it consists in the different parts and combination of parts hereinafter described, and particularly pointed out in the claims.

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

In the accompanying drawings, A and A' represent the hinged bars, which are substantially of the form shown in the drawings.

In Figs. 1 and 2 the device or tool is shown having but one handle, and in this instance the clamp B is pivoted to the bar A, substantially as illustrated in said Figs. 1 and 2.

The device shown in Figs. 1 and 2 is calculated and designed for light work. The bars A and A' are each provided with a recess to receive and hold the dies C, said dies being located substantially as illustrated in the drawings and are provided with the screw-threaded recesses *a*. These recesses *a* are formed of different sizes for the purpose of cutting threads upon bolts or bars of different diameters. These recesses *a* are also provided with the grooves *b*, which are for the purpose of allowing the metal cut off to escape.

The bars A and A' are hinged together by means of the rivet *c* and lips *d*. For the purpose of causing the bars A and B, together with the dies C, to part when said bars are released at their free ends the spring D is

provided, said spring being located substantially as shown in Fig. 2, and is held in proper position by means of the extensions or arms *e*, which enter recesses *f* in the bars A and A'. The bar A is provided with the set-screw E, which is located substantially as shown in the drawings, and is for the purpose of securely holding or stopping the bars A and A' at any desired point of adjustment, thereby regulating and adjusting the degree of opening of the screw-threaded recesses *a*. The clamp B is provided with the set-screw *g*, which is for the purpose of securely holding the bars A and A' at any desired point of adjustment. The set-screw E is first placed at the desired point of adjustment, when the set-screw *g* is firmly seated against the bar A'.

It will be seen that by our peculiar and novel arrangement the dies C can be so adjusted that they will cut a light thread at first, and by withdrawing the set-screw E a short distance and tightening the set-screw *g* the dies C will be brought into proper position to cut a deeper or heavier thread upon the bar or bolt.

It will be seen that by placing the spring D as illustrated in Fig. 2 it will cause the bars A and A' to spread apart when they are released at their free ends.

For the purpose of holding the dies C in the bars A and A' the ends of said dies are provided with a recess or groove, which fits a corresponding-shaped portion on the bars A and A'.

For the purpose of providing a tool capable of heavy work the handles F are formed as illustrated in Fig. 3, and the clamp B is adapted to slide back and forth on the bars A and A'. The object and purpose of providing a sliding clamp is to prevent the bars from springing while in use. The sliding clamp is provided with apertures *h*, which are located so as to come directly opposite the screw-threaded recesses *a*, designed to be used in cutting a thread.

In the drawings three sizes of screw-threaded recesses *a* are shown, thereby providing dies capable of cutting threads upon different size bolts.

It will be understood that different dies having different size recesses can be provided and placed as shown in the drawings. It will

also be seen that bolts having different diameters can be cut with one set of screw-threaded recesses by changing the adjustment of the bars A and A'; but only a small change can
5 be made in this way.

Having fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

10 1. The combination of the bars A and A', hinged together, the dies C, provided with the screw-threaded recesses *a*, the spring D, the clamp B, the set-screw E, and the set-screw *g*, substantially as and for the purpose set forth.

2. The combination of the bars A and A', 15 the dies C, provided with the recesses *a*, the spring D, provided with the extensions or arms *e*, adapted to enter the recesses *f*, the set-screws E and *g*, and the clamp B, substantially as and for the purpose set forth. 20

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

AUGUST EFFINGER.
LEVI L. DEWEESE.

Witnesses:

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