J. F. C. RIDER.
Screw-Cutting Die.

No. 218,402. Patented Aug 12, 1879.

Fig. 1.

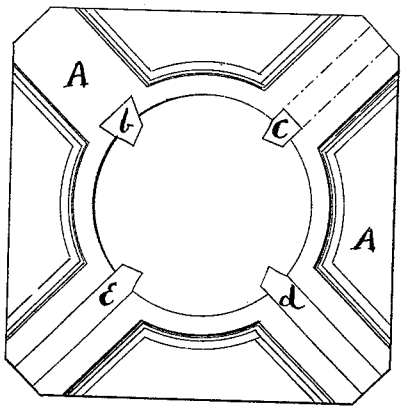


Fig. 2.

Fig. 3.

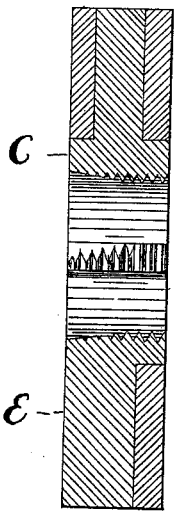
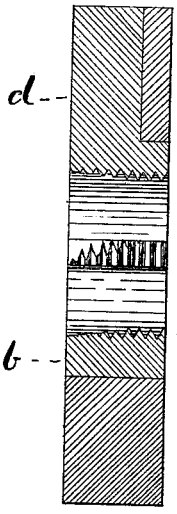


Fig. 4.



Attest:
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UNITED STATES PATENT OFFICE.

JOHN F. C. RIDER, OF SOUTH NEW MARKET, NEW HAMPSHIRE, ASSIGNOR TO HELEN A. RIDER, OF SAME PLACE.

IMPROVEMENT IN SCREW-CUTTING DIES.

Specification forming part of Letters Patent No. **218,402**, dated August 12, 1879; application filed January 19, 1877.

To all whom it may concern:

Be it known that I, JOHN F. C. RIDER, of South New Market, in the county of Rockingham and State of New Hampshire, have invented a new and useful Improvement in the Construction of Dies and Taps for Cutting Screw-Threads, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a plan view of a screw-threading die with my improvement, showing various-shaped cutters inserted; Fig. 2, an elevation of the same; Figs. 3 and 4, sectional views.

A is the blank or stock, in which the small cutters *b c d e*, of any desired shape, are inserted.

I form the blank A with openings or slots therein to receive the cutters *b c d e*, and weld the cutters securely into the slots so formed in the blank. When so constructed the implement can be made at a greatly-reduced cost and much lighter than the ordinary tool.

By this method of construction I am able to insert steel cutters in iron blanks or receivers, making a die or tap equally as good as one from solid steel, and at a very low cost. These dies and taps can be repaired or sharpened the same as those made from solid steel.

Having thus described my invention, I claim—

The within-described die as an article of manufacture, consisting of a stock and steel bits or cutters securely and firmly welded therein, substantially as specified.

JOHN F. C. RIDER.

Witnesses:

C. F. MORRISON,

PERCY S. BRYANT.