J. B. EATON & C. LATHAM.

MACHINES FOR THREADING AND CUTTING PIPE.

No. 179,540. Patented July 4, 1876.

Fig. 1.

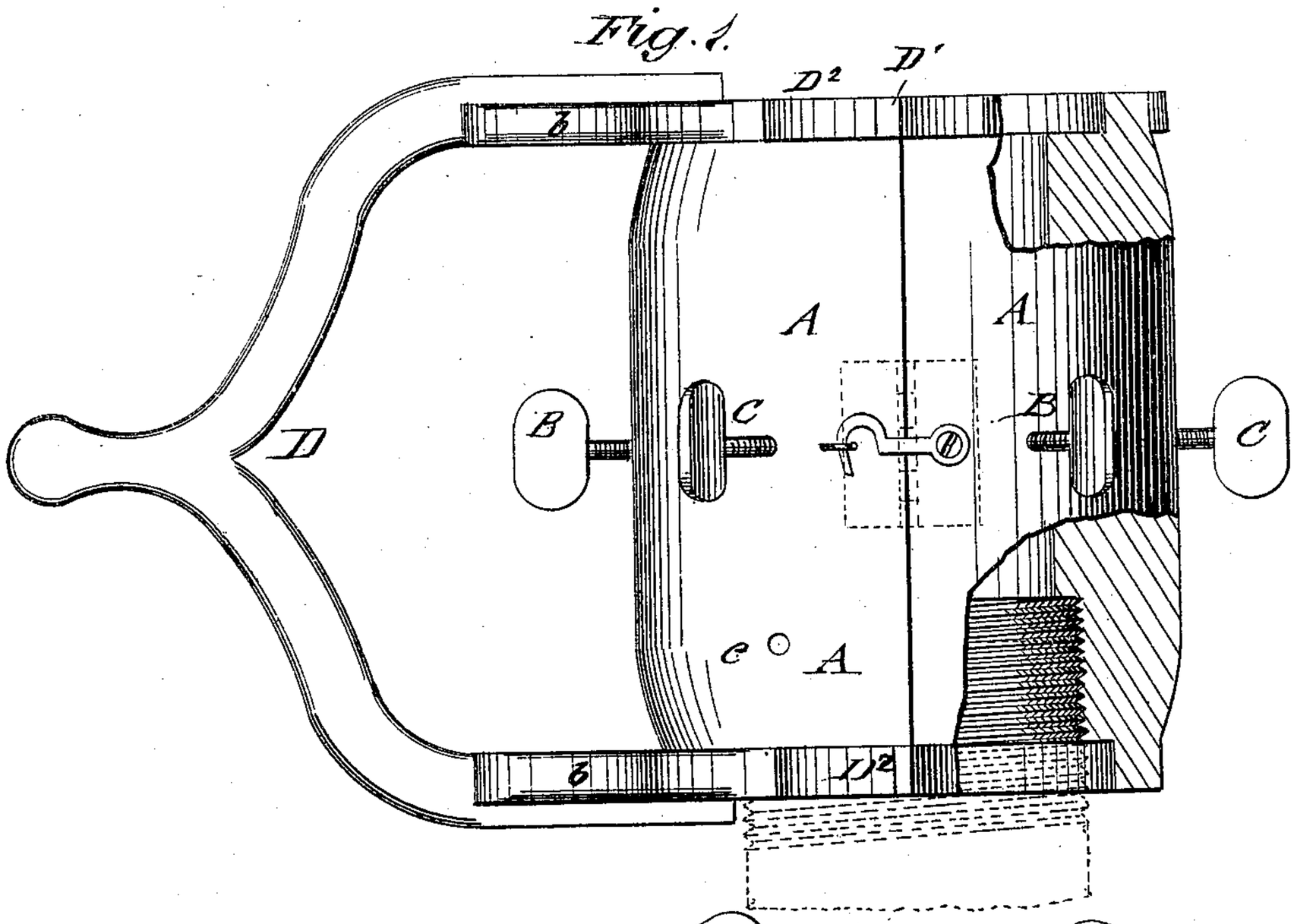


Fig. 2.

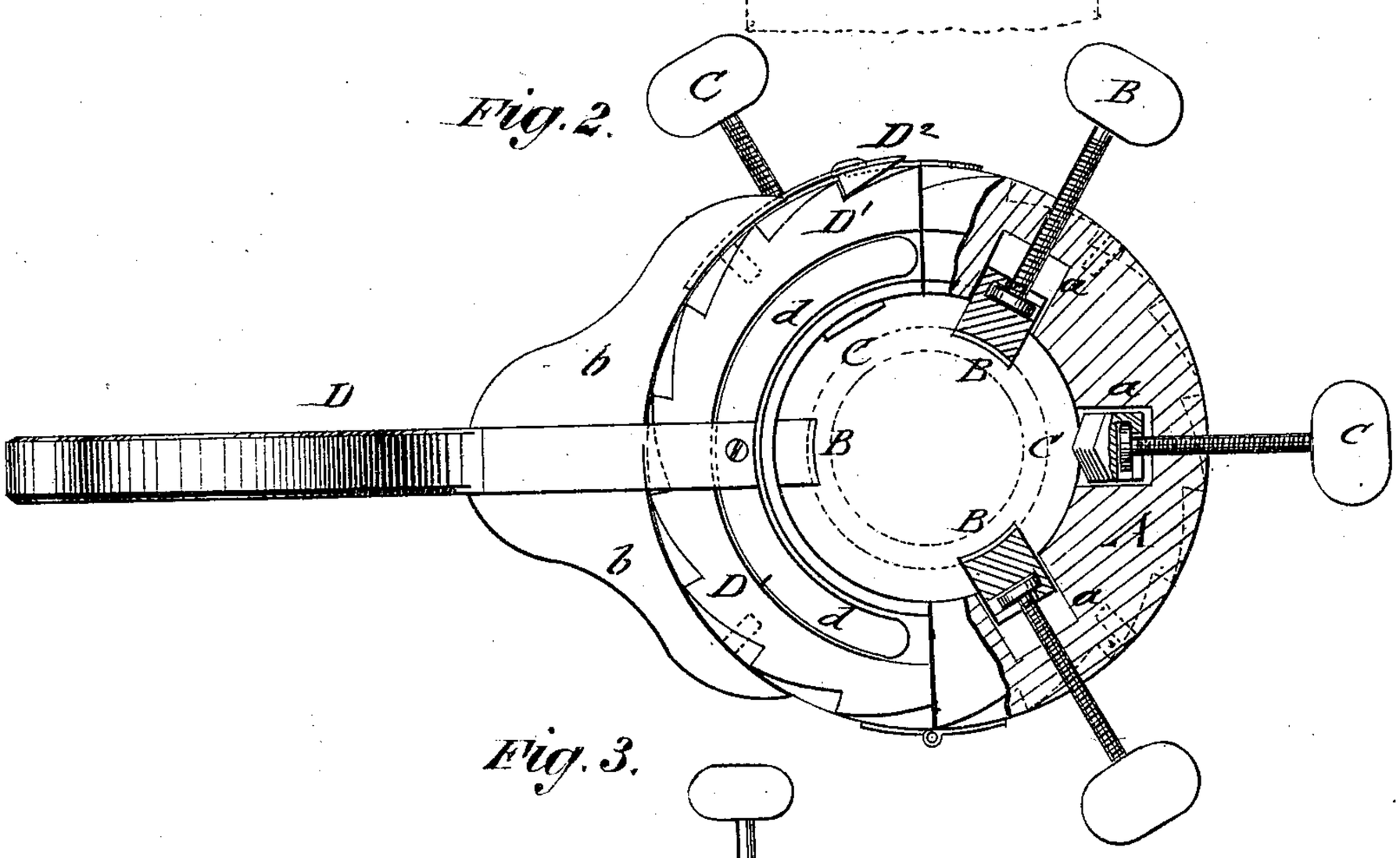
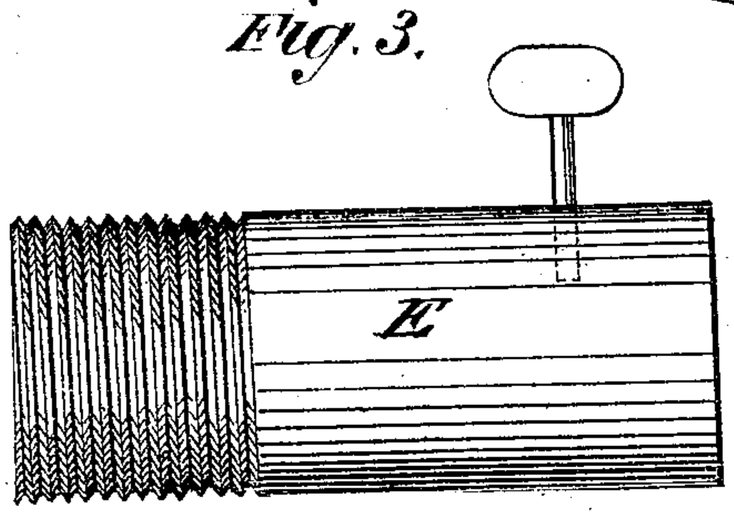


Fig. 3.



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UNITED STATES PATENT OFFICE.

JOSEPH B. EATON AND CHARLES LATHAM, OF SHAMOKIN, PENNSYLVANIA.

IMPROVEMENT IN MACHINES FOR THREADING AND CUTTING PIPE.

Specification forming part of Letters Patent No. **179,540**, dated July 4, 1876; application filed May 27, 1876.

To all whom it may concern:

Be it known that we, JOSEPH B. EATON and CHARLES LATHAM, of Shamokin, in the county of Northumberland and State of Pennsylvania, have invented a new and Improved Pipe Cutting and Threading Machine, of which the following is a specification:

In the accompanying drawings, Figure 1 represents a top view of our improved pipe cutter and threader; Fig. 2, a sectional end view of the same; and Fig. 3 is a detail view of the drawing-pipe.

Similar letters of reference indicate corresponding parts.

Our invention relates to an improved pipe cutting and threading machine, that may be worked effectively in a very narrow space, so as to produce a saving in time and labor in the digging, and the working of the machine; and the invention consists of a shell of two hinged sections, with adjustable threaders and cutters, and ratchets with pawls, handle, and a drawing-pipe.

In the drawing, A represents the shell or casing of our improved pipe threader and cutter, that is made of two hinged sections, which are applied around the pipe to be worked upon, and locked firmly together by a suitable device. The threading-dies B and the cutters C are guided in interior recesses *a* of the shell, and adjusted or fed forward to the required depth of cutting by means of set-screws worked from the outside of the shell. The shell A is cast at the ends with raised ratchet-teeth D^1, along which an operating handle, D, is guided at both ends by an outer arc-shaped part, *b*, and an inner concentric piece, *d*, that slides in a recess of the shell below the ratchet. The outer guide-pieces of handle D lock, by spring-pawls D^2, into the ratchets, to take hold of the shell, and turn it in one direction, while releasing it when turned back in opposite direction. A drawing-pipe, E, with threaded end, fits into the threaded end of the shell, and is attached by one or more clamp-screws tightly to the pipe to be threaded, drawing by the screw-threads the threading-machine forward for cutting the thread on the pipe.

When the pipe is threaded the machine is returned for clearing the thread by a semicircular handle with hook end, that is inserted into the small socket-holes *e* of the shell.

Thus a deep or shallow thread may be cut on water and gas pipes of different sizes with ease and rapidity, while the cutting is done in perfect manner without leaving a shoulder at the end of the pipe by the cutting devices C.

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

1. The combination of the sectional shell or casing, having end ratchet-teeth, with the swinging and guided handle, and spring-pawls to turn the machine for cutting or threading, substantially as specified.

2. The combination of the shell or casing, having interior thread at one end, with a threaded drawing-pipe secured to pipe to be cut, to draw the machine forward, substantially as specified.

JOSEPH B. EATON.
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Witnesses:
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