C. FENTON.

Pipe Tongs and Cutters.

No. 164,368. Patented June 15, 1875.

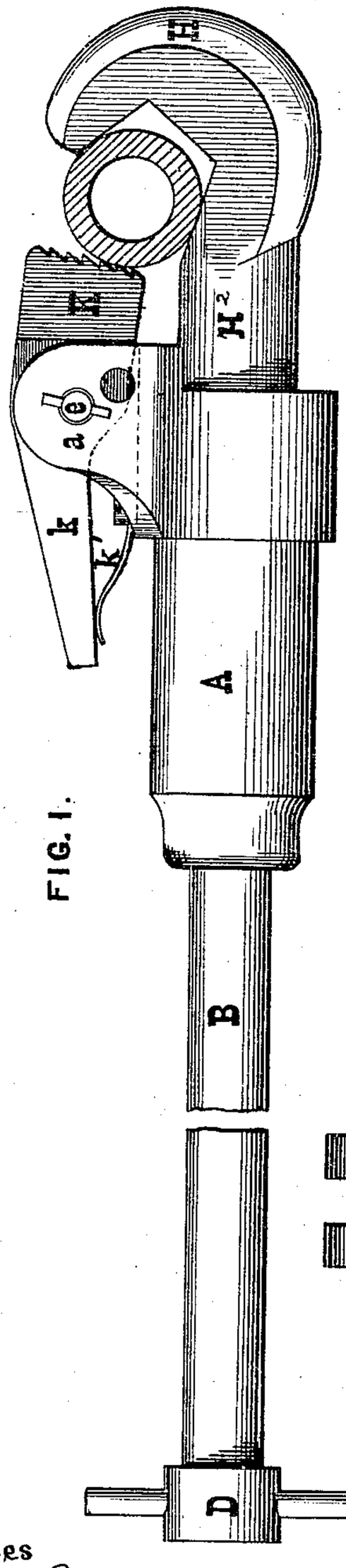

FIG. 1.

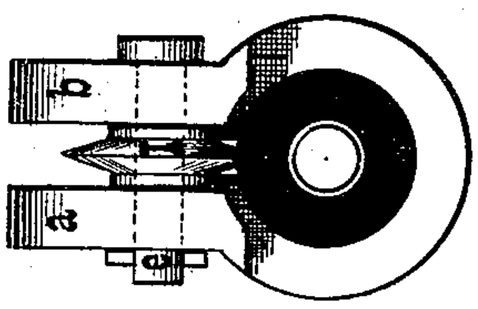

FIG. 3.

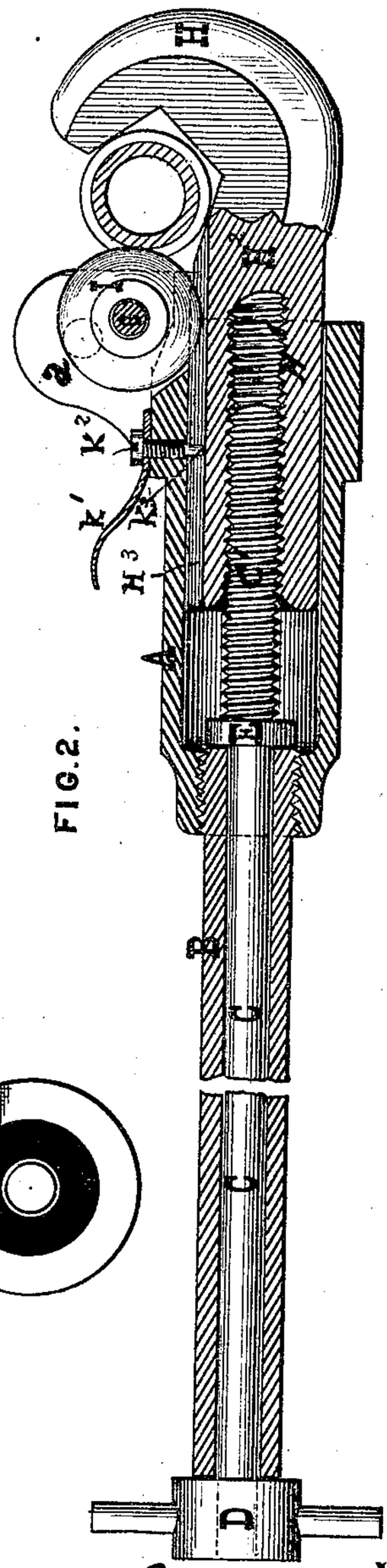

FIG. 2.

Witnesses

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UNITED STATES PATENT OFFICE.

CHARLES FENTON, OF NEW YORK, N. Y.

IMPROVEMENT IN PIPE TONGS AND CUTTERS.

Specification forming part of Letters Patent No. **164,368**, dated June 15, 1875; application filed July 14, 1874.

To all whom it may concern:

Be it known that I, CHARLES FENTON, of the city, county, and State of New York, have invented a Combined Pipe-Tongs and Pipe-Cutter; and I do hereby declare the following to be a full and correct description of the same, reference being had to the accompanying drawings, in which—

Figure 1 represents my device as a pipe-wrench; Fig. 2, a sectional view as a pipe-cutter, and Fig. 3 a cross-section between the jaws and cutter.

My invention relates to improvements in that class of tools known to the trade as pipe tongs and cutters, in which one of the jaws of the tongs is capable of removal and substitution by a cutter, the nature of which will hereinafter be fully explained.

In the drawings, A represents the body of the stock, and B the extension or handle, the part B being connected to the part A by screw-joint, as shown. Within the extension or handle B a shaft or rod, C, is arranged, capable of revolution by means of a head or handle, D, the said rod being kept in correct position in the extension B by means of the handle D and collar E working against a bearing formed by the end of the handle or shaft B. The upper portion of the rod C is formed with a screw-thread, C′, adapted to be received and operate within a female screw, H^1, formed in the extension H^2 of the jaw H. The extension H^2 of the jaw H is arranged to slide freely in the body A, and to be drawn to and fro by means of the screw-thread C′ working in the female screw H^1. The jaw H is formed so as to receive and hold one-half of the periphery of a pipe, L, the said pipe L being held against the jaw H by means of a serrated head, K, which turns on a pivot, *e*, carried by a projection formed on the body A. The head K is provided with a lever-arm, *k*, against the lower end of which a spring, k^1, bears. The spring k^1 is retained in position by a screw, k^2, carried by the said body A, when its end k^3, which is turned off smooth, works in a groove, H^3, in the extension H^2, thereby serving as a guide to prevent the extension H^2 from turning in the body A. I, Fig. 2, is a cutter adapted to be substituted for the serrated head K by removing the pivot *e* and head K from the position shown by Fig. 1, and inserting the pin *e* through the hole *e′*, so as to support and carry the cutter L, as shown by Fig. 2.

It will thus be readily seen that by merely substituting the head K or the cutter L, the same instrument may be either employed as a pair of tongs or as a cutter.

Having thus described the nature of my invention, what I claim, and desire to secure by Letters Patent, is—

A tool adapted to be used as pipe tongs or cutter, constructed with a jaw, H, provided with an extension, H^2, formed with a female screw, H^1, and groove H^3, the said extension H^2 being adapted to slide in a body, A, provided with an extension, B, and screw k^2, the extension H^2 being drawn to and fro by means of a shaft, C, provided with screw-thread C′, a head or handle, D, and collar E, the whole being constructed and operating substantially as shown and described.

The above specification of the said invention signed and witnessed at New York this 10th day of July, A. D. 1874.

CHARLES FENTON.

Witnesses:

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