

(Model.)

E. M. BUTLER & W. H. CAMPBELL.
Combination Wrench.

No. 238,343.

Patented March 1, 1881.

Fig. 1

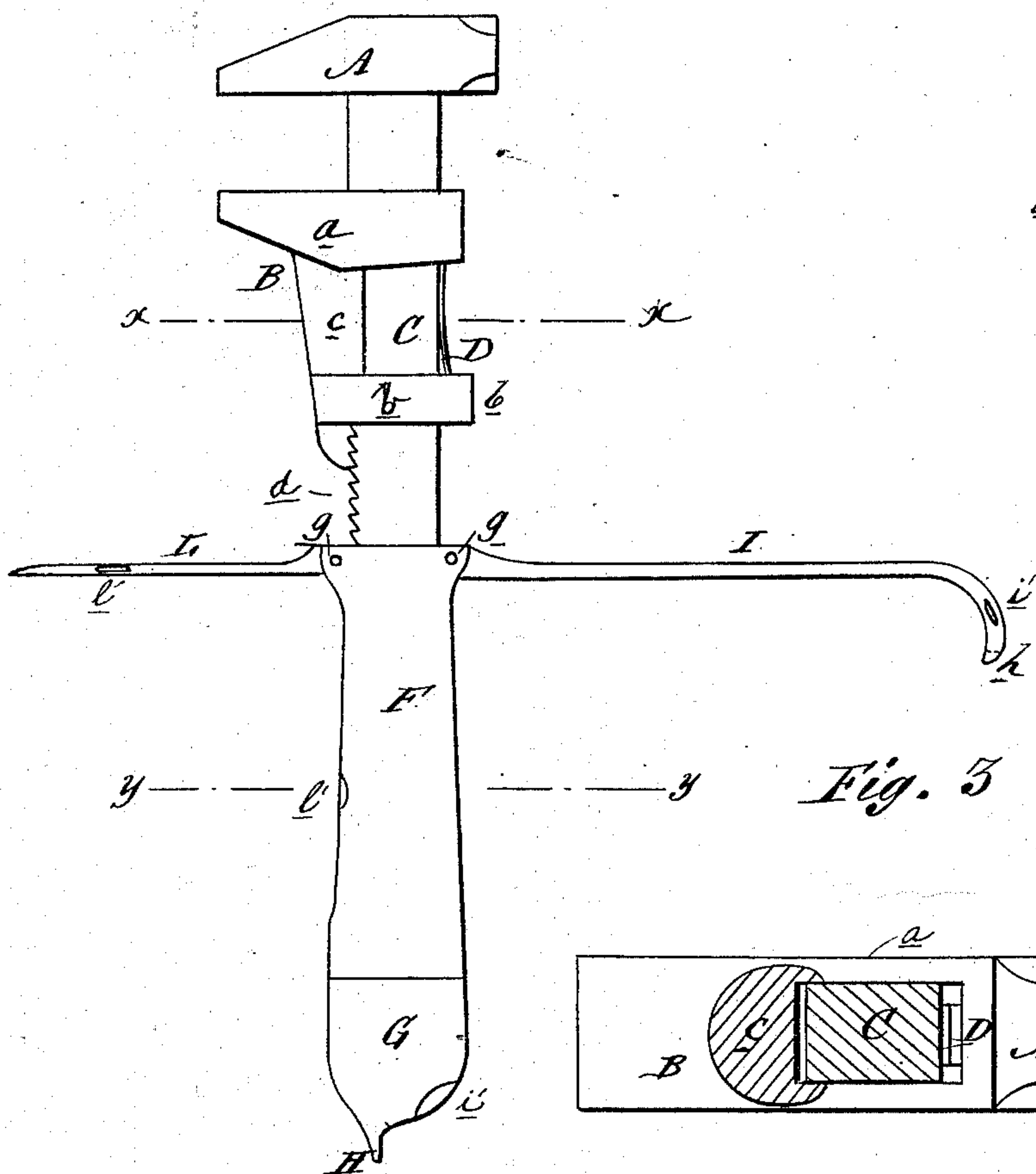


Fig. 2

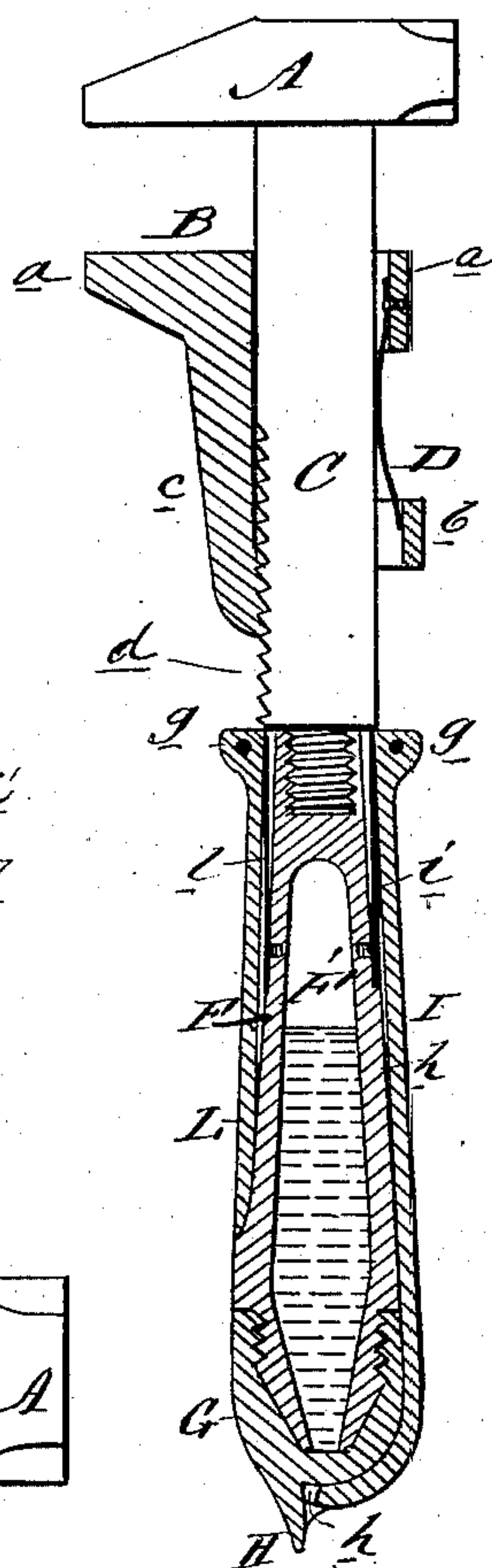


Fig. 3

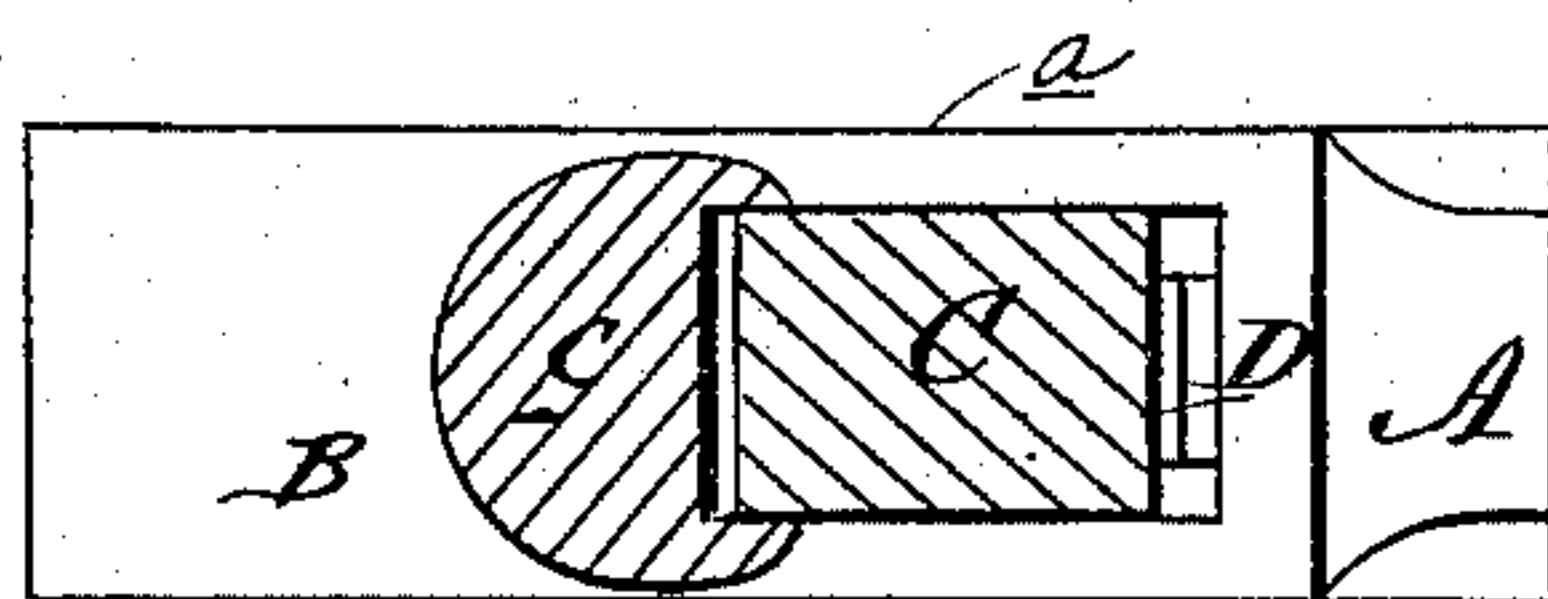
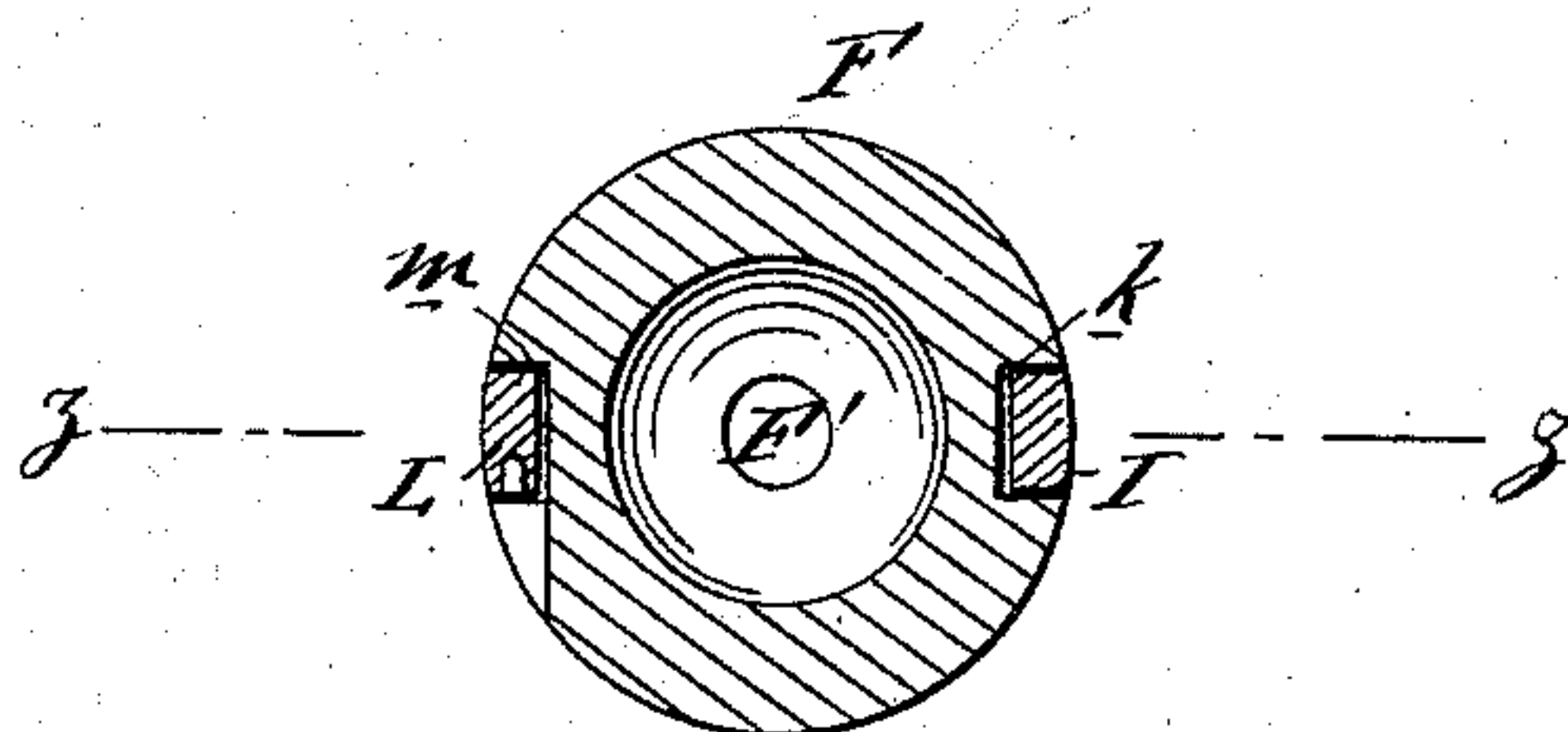


Fig. 4



WITNESSES:

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UNITED STATES PATENT OFFICE.

EDWARD M. BUTLER AND WILLIAM H. CAMPBELL, OF CLEBURNE, TEXAS,
ASSIGNORS OF ONE-THIRD TO JASPER JENNINGS, OF SAME PLACE.

COMBINATION-WRENCH.

SPECIFICATION forming part of Letters Patent No. 238,343, dated March 1, 1881.

Application filed October 21, 1880. (Model.)

To all whom it may concern:

Be it known that we, EDWARD M. BUTLER and WILLIAM H. CAMPBELL, of Cleburne, in the county of Johnson and State of Texas, have invented a new and Improved Combination-Wrench, of which the following is a specification.

The object of this invention is to provide a wrench whose movable jaw is adjustable without a screw, and with whose handle are combined several useful tools or instruments.

Figure 1 is a side elevation of the wrench with the hinged combination-tools extended. Fig. 2 is a sectional side elevation of the same. Fig. 3 is a cross-section on line *x x*, Fig. 1. Fig. 4 is a cross-section on line *y y*, Fig. 1.

Similar letters of reference indicate corresponding parts.

In the drawings, A B represent, respectively, the fixed and movable jaws of the wrench, and C the shank thereof.

The movable jaw B consists of the socketed jaw-face *a* and the loose socketed slide *b*, that slide upon the shank C, and of the front connecting-piece, *c*, that is toothed or serrated on its inner face, as shown. A flat bent spring, D, has one end secured in the rear of the jaw-face socket *a* and its free end extending downward in contact with the back of the wrench-shank C into the rear of the socket of the slide *b*, so that the teeth or serrations of the lower jaw, B, may be disengaged from the corresponding teeth *d* on the face of the shank C by pressing upon the rear of the slide *b*, and thereby overcoming the tension of the spring D. Then the said jaw B may be adjusted as desired and held firmly in place again on removal of the pressure on the slide *b* by the tension of the spring D.

The handle F is hollowed out, as shown at F', to form a receptacle for oil, it being desirable ordinarily to apply oil to any nut or screw to which the wrench is applied, and the screw-cap G screws on the end of said handle F and

closes said oil-receptacle F' in such a way that no oil can accidentally escape therefrom. The lower end of this cap G is prolonged into a flat point, H, that serves as a screw-driver.

Where the handle and shank of the wrench join, the said handle F is provided with rear and front projecting lugs *g g*, in one of which lugs *g* is pivoted the upper end of the hook I, that serves for many purposes, such as pulling packing out of axle-boxes on railroads, pulling off or cleaning horseshoes, &c., and the free end of the hook I is provided with a notch, as shown at *h*, that serves to draw tacks, and passes into a groove around the cap, in order to lock said cap and prevent it from unscrewing. This hook I is held open by a spring, *i*, fixed in the countersink *k* of the handle F, and when not in use the said hook I closes into said countersink *k*, as shown in Fig. 2. On the opposite side of the handle F the punch or scraper L is pivoted in a lug, *g*, and is held open by a spring, *l*, and when closed shuts down in the countersink *m* of said handle F. This punch or scraper L may be used to make holes in wood or leather, and for many other purposes. The parts I L have, respectively, nail-catches *i l* and handle-recesses *i' l'*, so that they may be readily lifted.

The handle F of the wrench may be screwed on the other part of said wrench, or both parts may be made in one, of iron or steel.

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

The hollow handle F, having screw-cap G over its open end, and at its closed end the tools I L, countersinks *k m*, and springs *i*, as shown and described.

EDWARD MARTAIN BUTLER.
WILLIAM HENRY CAMPBELL.

Witnesses:

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N. H. COOK.

