

(No Model.)

W. P. HEFFRON.

WRENCH.

No. 309,389.

Patented Dec. 16, 1884.

Fig. 1.

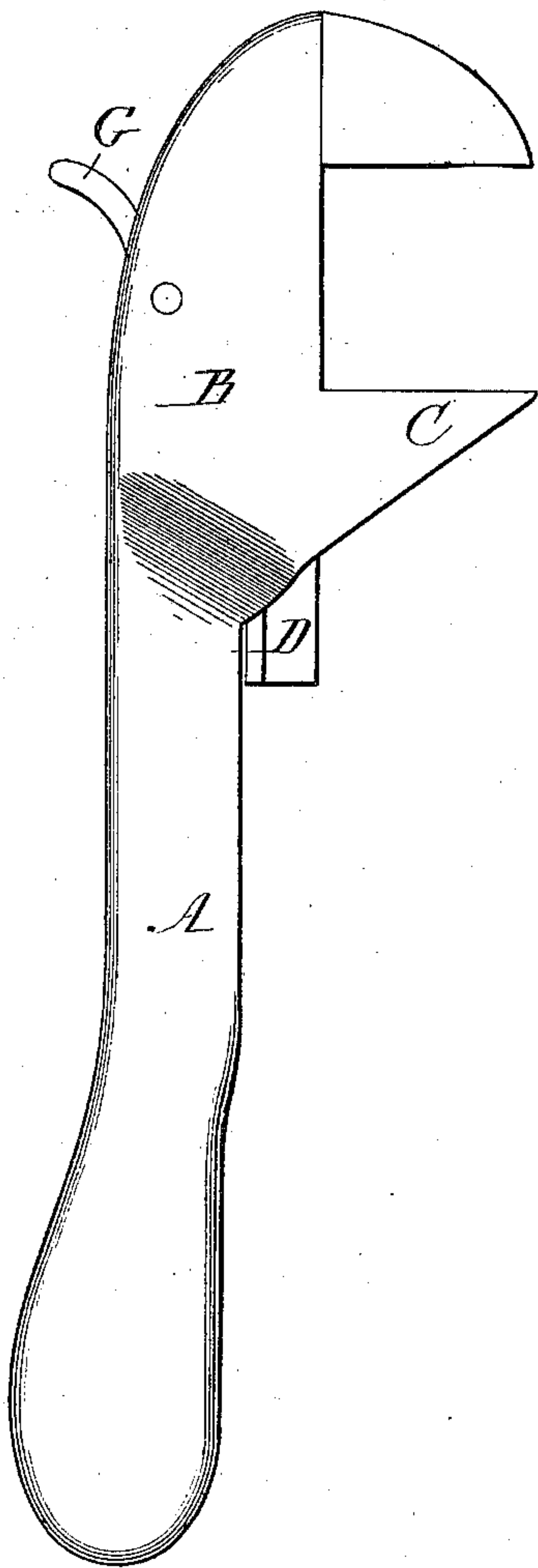


Fig. 2.

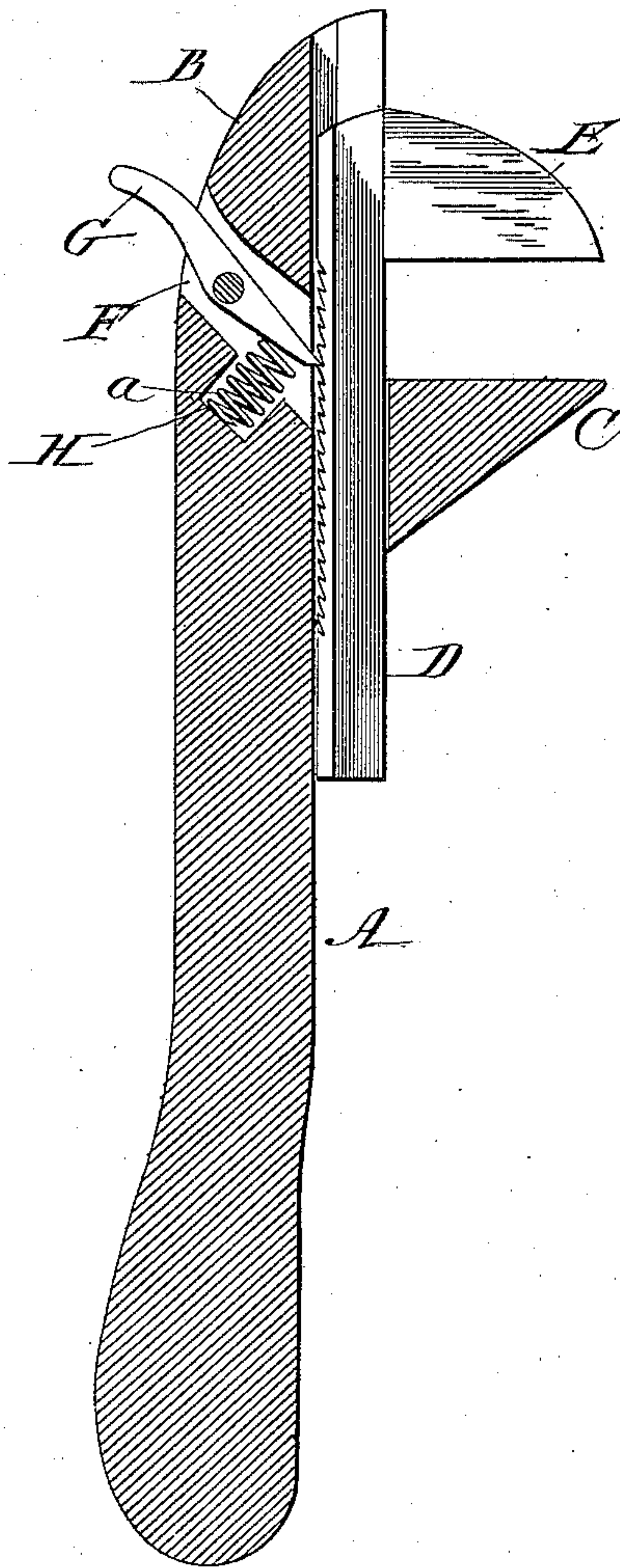
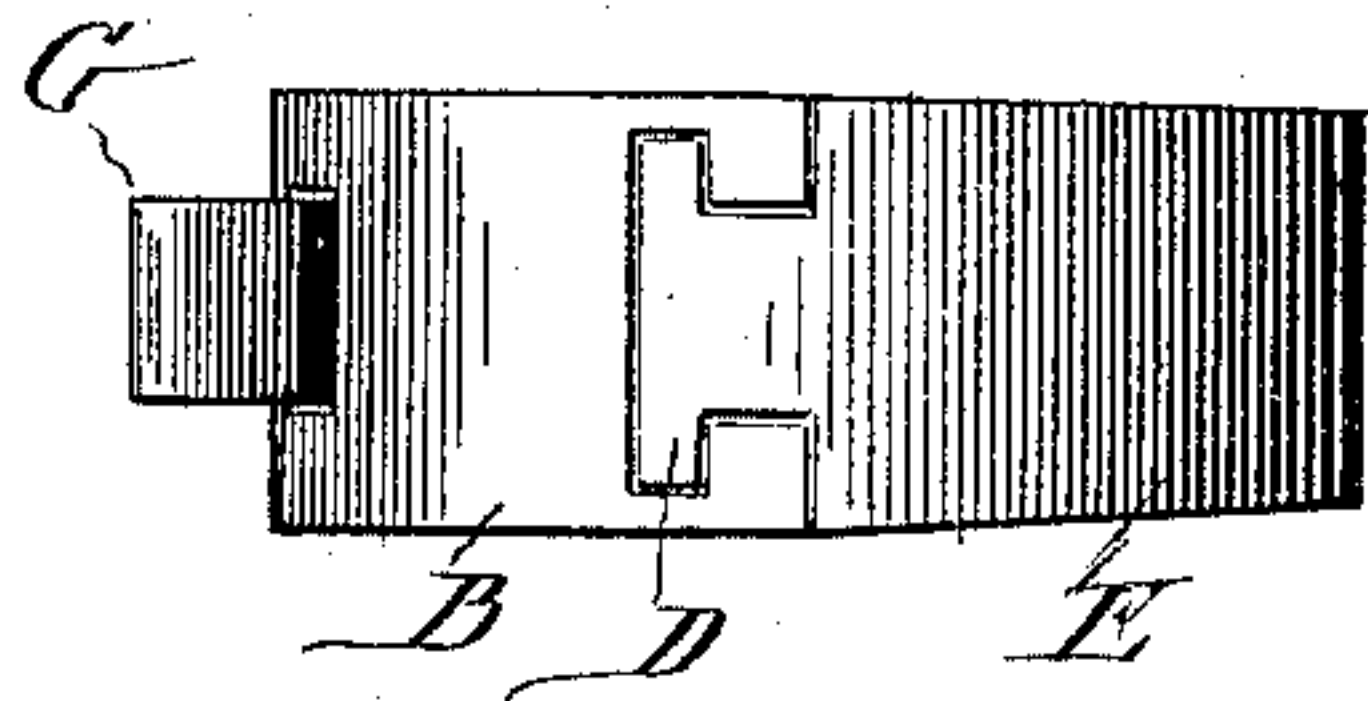


Fig. 3.



Witnesses.

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WRENCH.

SPECIFICATION forming part of Letters Patent No. 309,389, dated December 16, 1884.

Application filed April 21, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM P. HEFFRON, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and Useful Improvements in Wrenches, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to an improved wrench.

The object of the invention is to secure a wrench which will be simple in construction, and which will be securely held in the desired position during the operation; and to the accomplishment of the above the invention consists of the novel devices and combination of devices, as will be described and claimed.

Reference will be made to the accompanying drawings, in which Figure 1 is an elevation of the wrench complete, Fig. 2 a sectional view of the same, and Fig. 3 an end elevation.

Like letters refer to like parts in each view.

The wrench may be formed of any suitable material; and consists of a handle, A, formed with a head, B, and jaw C, which forms the stationary lip of the clamping device. Formed longitudinally through head B is an opening, the outlines of which are shown in Fig. 3, and into and through said opening a bar, D, is inserted. Bar D has formed on its upper face and outer end a lip or jaw, E, which completes the clamping device in connection with jaw C, above referred to. Bar D and its jaw E are adapted to be adjusted in the opening described as formed in head B, and with respect to jaw C, so as to adjust the clamping device. An opening, F, which communicates

with the opening in which bar D rests, is formed in head B, and extends through the bottom thereof.

Pivoted in opening F is a pawl, G, one end of which projects out beyond head B, and the other engages with ratchet-teeth formed upon the lower face of bar D.

Situated within a recess, *a*, formed in head B, is a spring, H, which is connected to pawl G, and which is arranged to keep said pawl in contact with the teeth of bar D. By this arrangement it will be understood that the bar D, with the jaw E, with which it is provided, will be held securely in any desired position with respect to jaw C, while at the same time by applying pressure to the outer end of pawl G the parts will be released and the adjustment of said bar rendered possible.

By the arrangement of parts as described it will be seen that a simple and effective wrench will be obtained, and one in which the mechanism for operating the adjustable jaw will be in a convenient position.

What I claim is—

The combination, with handle A, of stationary jaw C, formed therewith, bar D, formed with jaw E, and with a rack on its under surface, and pawl G, situated within the head of handle A, the parts so arranged that the bar D and its head move parallel with the handle, as shown.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM P. HEFFRON.

Witnesses:

M. J. CLAGETT,
LOUIS NOLTING.