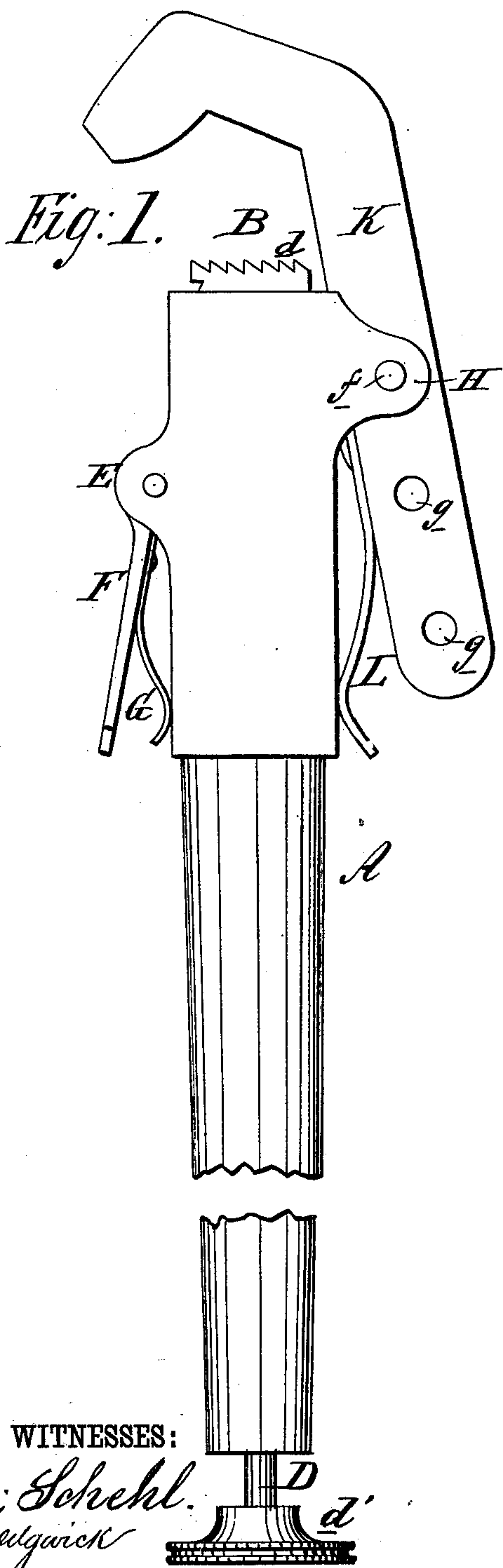


(Model.)

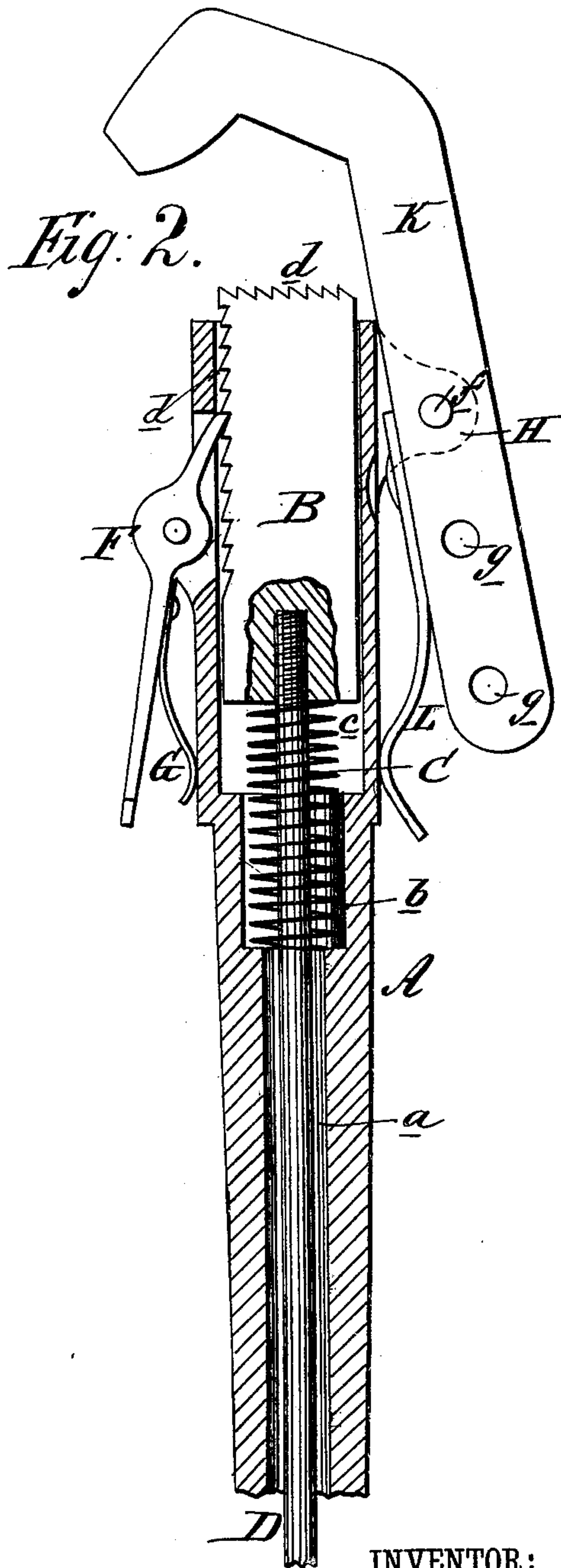
T. P. FRANKE.
Wrench.

No. 231,303.

Patented Aug. 17, 1880.



WITNESSES:
A. Schehl.
C. Delgovich



INVENTOR:
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ATTORNEYS.

UNITED STATES PATENT OFFICE.

THEODORE P. FRANKE, OF BUFFALO, NEW YORK.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 231,303, dated August 17, 1880.

Application filed April 7, 1880. (Model.)

To all whom it may concern:

Be it known that I, THEODORE P. FRANKE, of Buffalo, in the county of Erie and State of New York, have invented a new and Improved Wrench, of which the following is a specification.

The object of this invention is to provide an improved wrench or pipe-tongs that may be adjusted without screws.

10 The invention consists of a hollow internally-socketed handle containing in its upper section a movable serrated lower jaw resting upon a spiral spring, and adjustable by means of a rod that passes up through the handle.

15 Figure 1 is a side elevation of the device. Fig. 2 is a side elevation of the same, partly in section.

Similar letters of reference indicate corresponding parts.

20 In the drawings, A represents the handle of the wrench or pipe-tongs, hollowed out, as shown at *a*, and provided with a smaller and a larger socket, *b c*, respectively. In the socket *c* is placed the lower jaw, B, which is a block of metal serrated, as shown at *d*, on top and face. Below the jaw B the spiral spring C is placed in the socket *b*, while the rod D, which is provided with a knob or handle, *d'*, is passed up through the hole *a*, through the spring C, and is screwed into a socket in the lower end of the jaw B, so that by means of the springs C and rod D the said jaw B is pushed up and held in position or retracted, as may be desired, the spring C operating automatically to move and hold up the said jaw B.

35 In the lug E on the face of the upper part

of the handle A the pawl or dog F is pivoted, having attached to it a spring, G, that serves to hold the upper end of said dog F engaged in the serrations on the face of the jaw B, and thereby hold it in position. In the lug H on the rear of the upper part of the handle B the head or upper jaw, K, is pivoted by a removable pin, *f*, said jaw K being provided with several holes, *g*, whereby it may be raised or lowered and adjustably pivoted in said lug H. The spring L, attached to the under side of this jaw K and bearing against the handle A, serves to hold the bend of said jaw over the head of the lower jaw, B.

50 All the parts are readily removable, are easy of repair, nor are they as liable to get out of order as are the screw-adjustable wrenches and pipe-tongs in common use.

The jaws of this wrench or tongs may be of any desired shape to accommodate themselves to the work to which they may be applied.

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

60 As an improved article of manufacture, a wrench or pipe-tongs constructed substantially as herein shown and described, consisting of the hollow and socketed handle A, provided with lugs E H, rod D, movable lower jaw, B, spring-actuated pawl F, and spring-actuated adjustably-pivoted upper jaw, K, as set forth.

THEODORE PAUL FRANKE.

Witnesses:

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