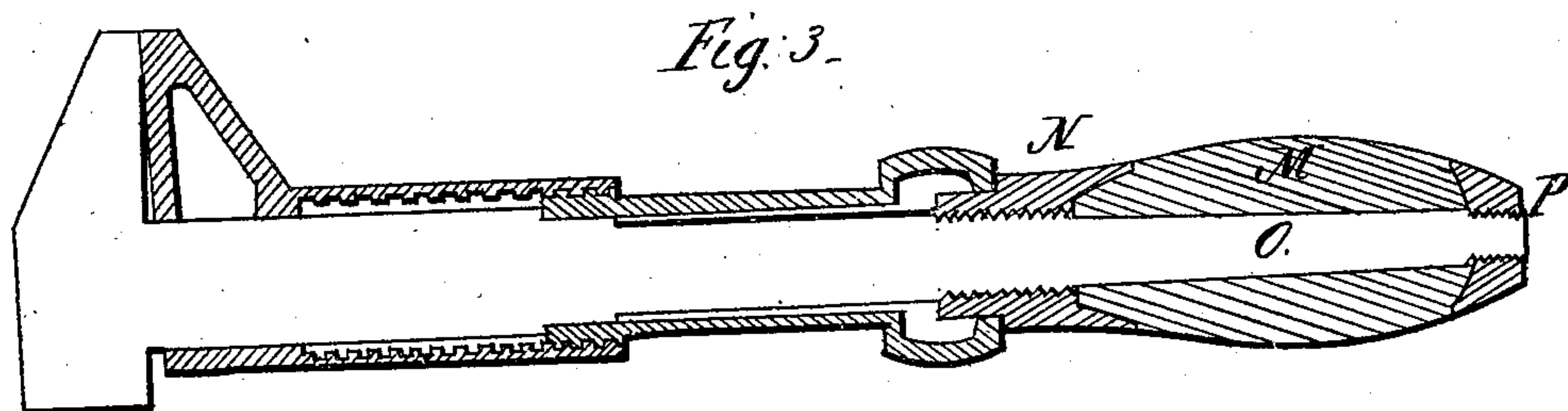
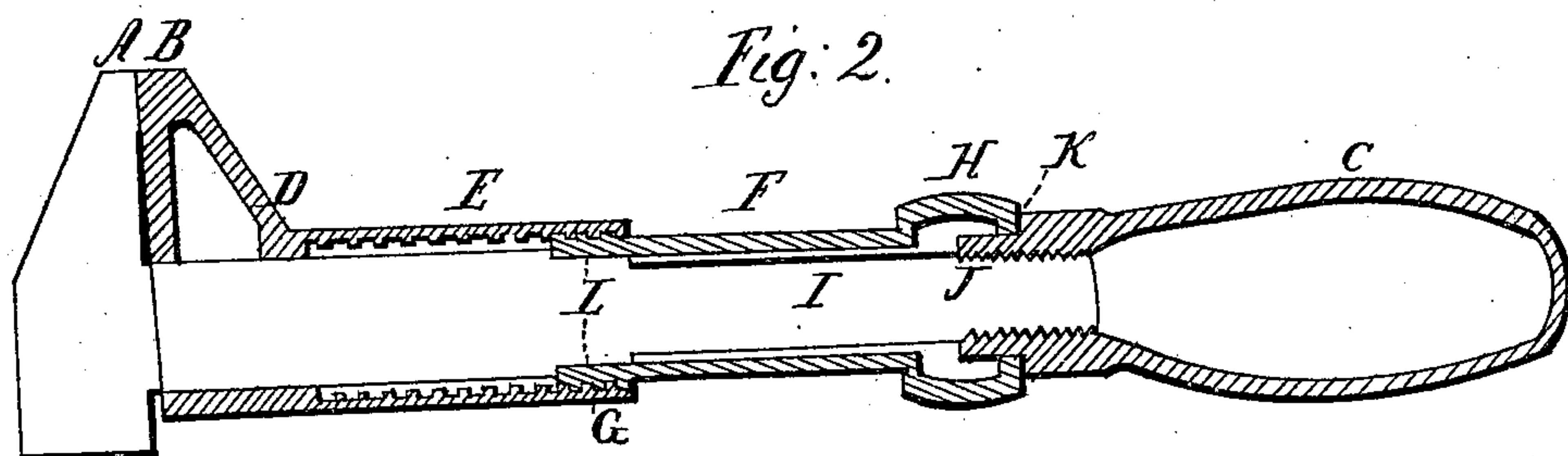
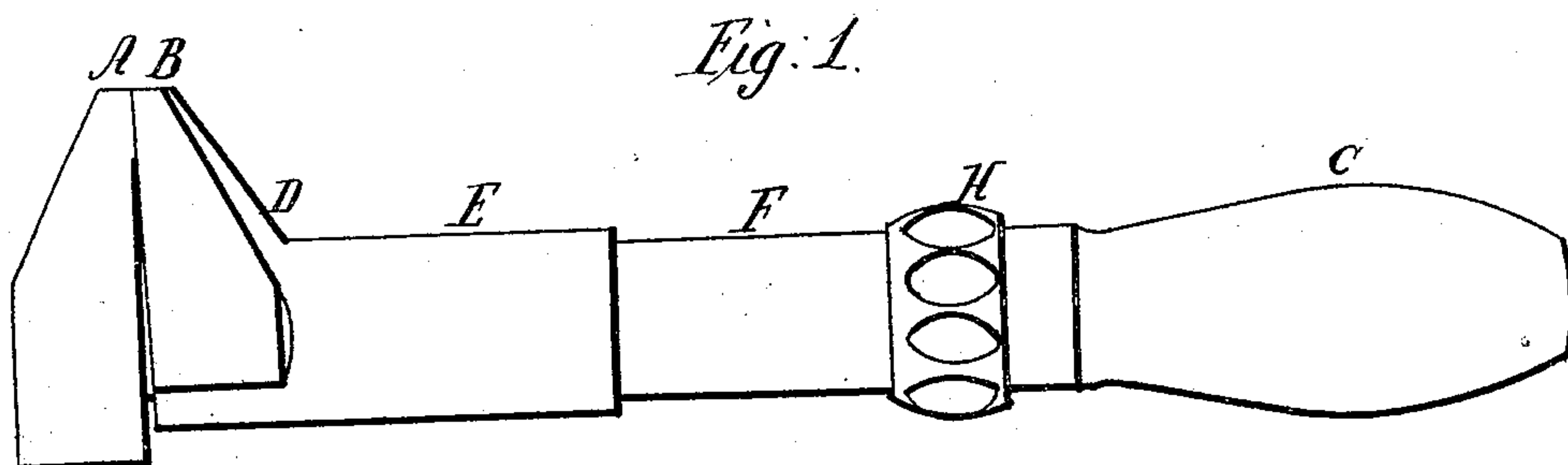


*H. W. Hewet*

*Wrench*

*N<sup>o</sup> 87,774.*

*Patented Mar. 16, 1869.*



*Witnesses;*

*C. B. Douché,*  
*M. L. Hewet*

*Inventor;*

*Henry Wheaton, Hewet*

# United States Patent Office.

HENRY WHEATON HEWET, OF NEW YORK, N. Y.

*Letters Patent No. 87,774, dated March 16, 1869; antedated February 27, 1869.*

## IMPROVEMENT IN WRENCHES.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern:*

Be it known that I, HENRY WHEATON HEWET, of the city, county, and State of New York, have invented a new and improved Mode of Constructing a Tubular Adjusting Screw-Wrench, whereby it is rendered more valuable than other similar wrenches; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Similar letters of reference indicate like parts in Figures 1 and 2.

The nature of my invention consists in providing the movable jaw with a tube, or socket, in which a female-screw is cut its entire length, and a corresponding male thread cut on a section only of the adjusting-tube, which is made to work within the socket of said jaw, thereby affording it protection against being clogged from gathering dust or dirt, and injury by abrasion, or being bruised by rough usage.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I construct the hammer and movable jaws, A B, and handle, C, in the usual forms of screw-wrenches in common use, as represented by fig. 1, but to the back of the movable jaw, at D, fig. 2, forming one and the same piece of metal, I provide a socket, or tube, E, of the length requisite for the jaws of the wrench to open to their full capacity, having a female screw cut its entire length, as represented in fig. 2.

I also provide a tube, F, having interior and end-

bearings at both its ends, on the shank and ferrule, represented at K L, Figure 3, with a male screw cut on a section at one end, to work in the socket, or tube, as represented at G, and, at the other end, a head, H, either milled or fluted, as represented by H, fig. 1, by means of which said tube is to be revolved (in adjusting the movable jaw) upon the hammer-shank, which passes through the movable jaw and it, as represented in fig. 2, by I I; and upon the end of the shank-spindle, which is provided with a shoulder at J, the handle C, if it be of iron, (having a bearing and shoulder,) is screwed against said shank-shoulder, thereby keeping the adjusting-tube in its place; and if the handle is to be of wood, as represented in fig. 3, by M, its ferrule, N, is similarly fastened, and for a like purpose, as represented in fig. 3, in which case the shank-spindle O extends through the handle, and is provided with a screw and nut, P, to be screwed against said handle, to hold it in its place.

What I claim as my invention, and desire to secure by Letters Patent, is—

The revolving socket F H, having at its forward end a section of male-screw thread, gearing in a female screw in the socket-extension E, of the movable head, substantially as shown and described, for the purpose set forth.

HENRY WHEATON HEWET.

Witnesses:

HENRY D. B. LEFFERTS,  
PAUL R. VAN MATER.