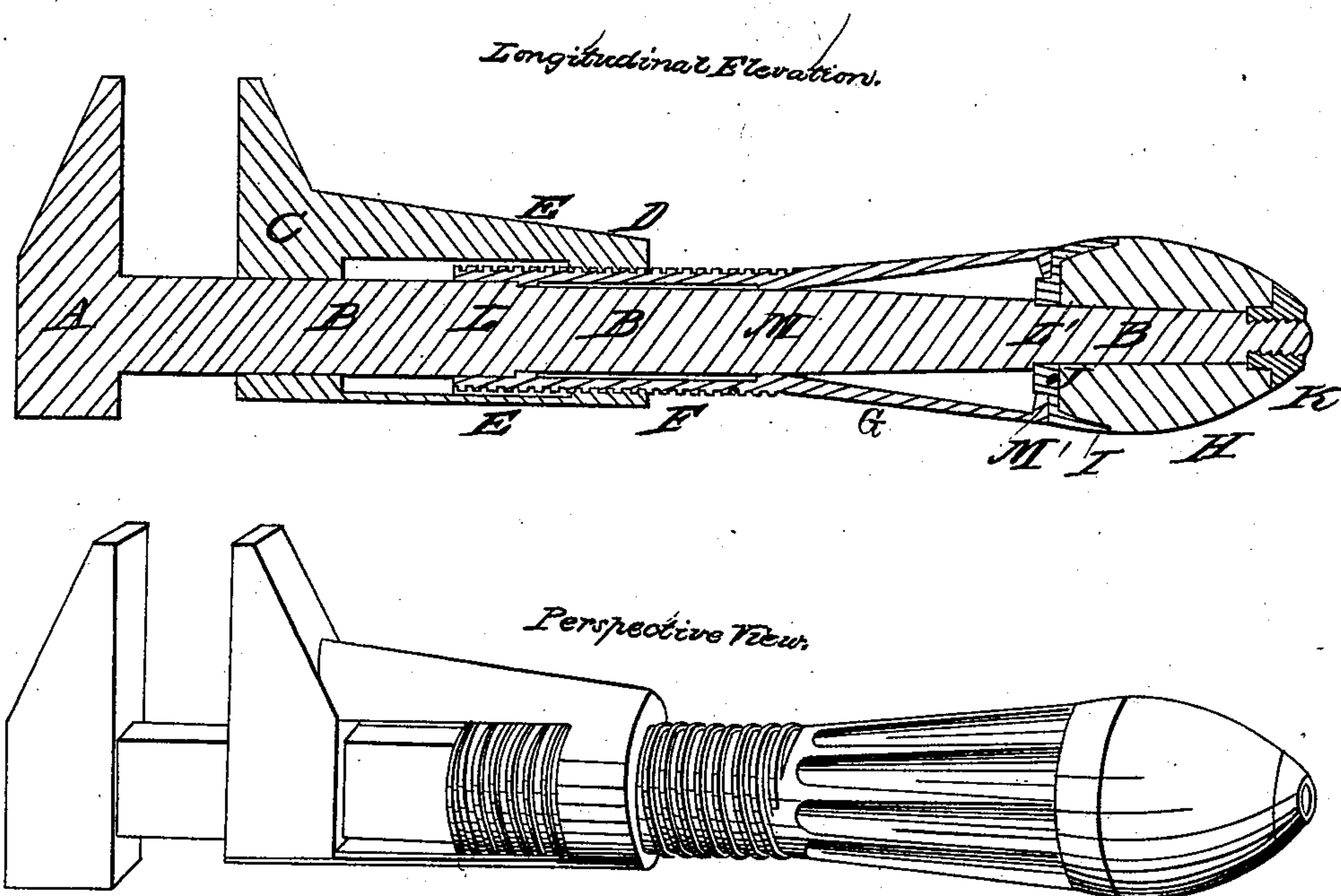


*H. W. Herret,  
Nut Wrench.*

*N<sup>o</sup> 41,995.*

*Patented Mar. 22, 1864.*



*Witnesses:*

*W. D. Robson.  
H. W. Herret.*

*Inventor:*

*Henry Wheaton Herret.*

# UNITED STATES PATENT OFFICE.

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

## IMPROVED SCREW-WRENCH.

Specification forming part of Letters Patent No. **41,995**, dated March 22, 1864; antedated January 25, 1864.

*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 in the Construction of a Screw-Wrench, whereby it is rendered stronger and more firmly adjustable than one of the usual construction; 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, of which—

Figure 1 is a longitudinal elevation, and Fig. 2 a perspective view.

The nature of my invention consists in lengthening the tube upon which the adjusting male screw is cut so as to form part of the handle, and so constructing it as to render the wrench as inflexible as possible and easily and powerful in its adjustment.

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

In longitudinal elevation of the drawings, A represents the hammer or stationary jaw. B B B represent the shank and spindle, forming one piece with the hammer. C D represent the movable jaw and nut united by E E. F represents the tubular screw, and G its tubular extension, forming part of the handle. K represents the nut screwed on the end of the spindle against the stationary part of the handle, firmly fixing it in its place.

The material of which the wrench is to be made is that in ordinary use in the manufacture of screw-wrenches. The hammer A and the portion of its shank B upon which the movable jaw C, which encompasses it, is made to slide, also the movable jaw, are of the usual form of similar parts of screw-wrenches in ordinary use. The tube upon which the male screw F is cut and handle G being one and the same piece, is fitted upon the shank-spin-

dle, having bearings at L M, and is capable of being revolved upon it by turning the movable handle, the outer surface of which is fluted for the purpose of obtaining a more firm grasp of the hand in case the movable jaw requires an unyielding adjustment, as represented in perspective view, thereby adjusting the movable jaw C by means of its screw-nut D, which is a part of it, connected by E E. The washer I is fitted firmly upon and against a shoulder of the spindle at L', and is provided with a shoulder at J, upon which the movable handle at M' has a bearing. The stationary part of the handle H is firmly fastened upon the spindle against the back of the washer I by means of the screw-nut K.

The advantages of the tube upon which the screw is cut being elongated, and having bearings so as to form a part of the handle, are to increase the strength of the shank-spindle, rendering it thereby less liable to be deranged by bending, and to render the movable jaw easier and more firmly adjustable than wrenches of a different construction in ordinary use.

I do not claim the tubular male screw as a means of adjusting the movable jaw, as Letters Patent have been granted to me therefor; but

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

The extending the tube upon which the adjusting male screw is cut so as to form a part of the handle with its peculiar bearings or their equivalents, thereby rendering the shank-spindle quite inflexible and affording an easy and powerful adjustment of the movable jaw, substantially as hereinbefore described.

HENRY WHEATON HEWET.

Witnesses:

W. B. CHAMBERLAIN,

A. V. W. VAN VECHTEN.