

T. P. FRANKE.
PIPE-WRENCH.

No. 171,789.

Patented Jan. 4, 1876.

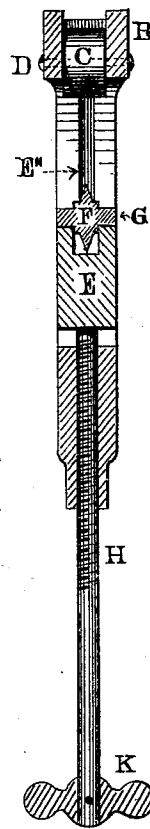
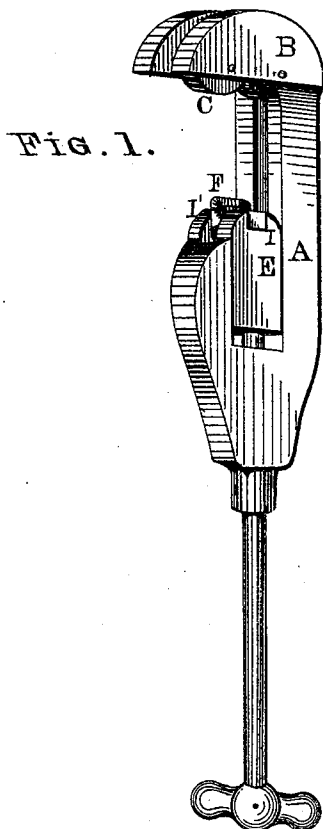
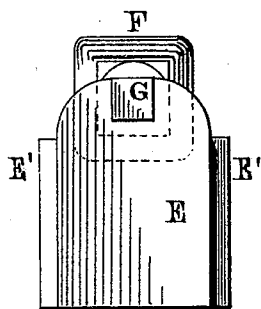


Fig. 3.



WITNESSES:

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INVENTOR:

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UNITED STATES PATENT OFFICE.

THEODORE P. FRANKE, OF BUFFALO, NEW YORK.

IMPROVEMENT IN PIPE-WRENCHES.

Specification forming part of Letters Patent No. **171,789**, dated January 4, 1876; application filed March 26, 1875.

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 Pipe-Cutter; and I do hereby declare that the following is a full, clear, and exact description of the same, having reference to the accompanying drawing, which makes part of this specification, and illustrates my invention more fully.

Figure 1 is a perspective elevation of my improved pipe-cutter. Fig. 2 is a longitudinal transverse section of the same, and Fig. 3 is a front elevation of the loose jaw.

This invention relates in general to cutters for cutting pipes, bolts, rods, &c.; and it consists in the peculiar construction, as hereinafter fully set forth, and pointed out in the claims.

A is the stock of my improved cutting-tool. It is provided on its upper end with a bifurcated head or stationary jaw, B, fitted with rollers C C' made of suitable material, case-hardened iron or tempered steel being preferable, and arranged within the head B, at suitable distance apart. Within the stock A is fitted the loose jaw E, by means of the projections E' entering longitudinal slots or recesses E'' in the said stock. It is provided with a stationary quadrangular cutter, F, having the quadrangular journal G tightly fitting corresponding excisions in the upper part of the said follower or loose jaw. This cutter F is, with its pivots G, made of one solid piece of the best steel, and suitably tempered, the cutting-edges being of such a bevel that, according to the metal to be operated upon, it will be neither too keen as not to withstand the pressure, nor too blunt to work hard. For cutting wrought-iron pipes or rods, the cutter should be a little more blunt than for cutting brass tubing, or the like, but a bevel of about thirty degrees will, in most cases, be found to answer all purposes. The movable jaw E is adjustable by means of the screw-shank H provided with a T-handle, K, in the ordinary man-

ner, so that any size pipes or rods within the compass of the instrument can be cut. The bifurcated jaw B is provided with rollers C C', which serve as anti-friction rollers, and also to roll down the burr produced by the cutter on each side of the cut.

It will be observed that the cutter E is fitted stationary within the loose jaw E, and has four cutting-sides which can alternately be brought into requisition, after one side is worn, and that the cutter, being tightly inserted, but not otherwise fastened, can be taken out and ground, even by the most unskillful operator, and replaced in a few moment's time, thus saving considerable time, &c.

The operation of my improved instrument does not differ from those now in common use, and is so well understood that I do not deem it necessary to describe it.

Having thus fully described my invention, in order to enable any one skilled in the art to which it pertains to make the same, I desire to secure to me by Letters Patent—

1. The cutter F, consisting of a square disk of steel, having its four corners rounded and its sides beveled, and provided with angular projections G serving as pivots, substantially as described, and for the use and purpose set forth.

2. The combination, with a cutter, F, constructed as described, of the movable block E, having side extensions I I', provided with angular excisions on the upper end thereof, serving as bearings for the angular pivots G, substantially in a manner and for the use and purpose set forth and described.

In testimony that I claim the foregoing as my invention, I have hereto set my hand this 23d day of March, 1875, in the presence of two subscribing witnesses.

THEODORE P. FRANKE.

Witnesses:

PARKER H. SWEET, Jr.,
JOSEPH SHINN.