C. PETERSON & A. DUNNEBAKE.

PIPE-WRENCH.

No. 185,958. Patented Jan. 2, 1877.

Fig. 1.

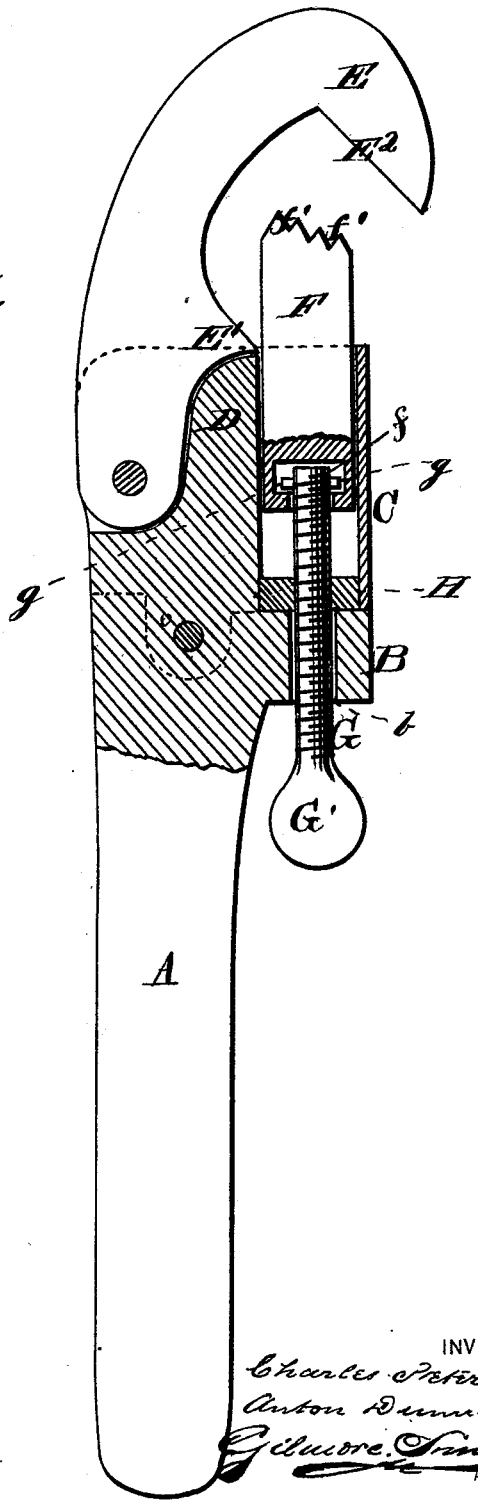
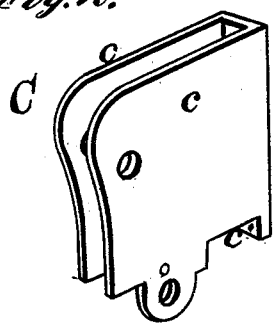


Fig. 2.



WITNESSES

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CHARLES PETERSON AND ANTON DUNNEBAKE, OF DETROIT, MICHIGAN.

IMPROVEMENT IN PIPE-WRENCHES.

Specification forming part of Letters Patent No. **185,958**, dated January 2, 1877; application filed October 28, 1876.

To all whom it may concern:

Be it known that we, CHAS. PETERSON and ANTON DUNNEBAKE, of Detroit, in the county of Wayne and State of Michigan, have invented a new and valuable Improvement in Gas-Fitting Wrenches; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side elevation, part sectional, of our gas-fitting wrenches; and Fig. 2 is a detail view of the same.

This invention relates to wrenches for gas-pipes, &c.; and it consists in the construction and arrangement of the parts, as will be hereinafter described, and pointed out in the claim.

In the annexed drawings, A designates the handle of the wrench, which is provided, near its outer end, with a lateral extension, B, and a casing, C. Said casing is shown in detail in Fig. 2, the lower part of which is provided with perforated extensions *o o*. It is secured above or beyond side extension B, and incloses a longitudinal extension or stop-lug, D, on the extreme end of said handle. E designates a hook-shaped jaw, which is pivoted between side plates *c c* of casing C, at the open end thereof, and is provided with a pointed stop-lug, E^1, which engages with stop lug D, when said jaw is turned sufficiently far for grasping the pipe. Jaw E is thus prevented from turning too far in the direction of the pipe which is to be grasped.

F designates a straight adjustable jaw, which may be moved toward or from jaw E by means of a screw-threaded rod, G, which passes up or out through a hole, *b*, in side extension B, and is connected to the rear end of sliding jaw F. Said rod works in a nut, H, which is located just beyond extension B, and within casing C. The sides *c c* of said casing are recessed at *c′ c′* for the reception of the nut H, and afford bearings for the same, which bearings or shoulders hold the nut in its seat on the extension B of the handle. The attachment of said rod to said sliding jaw is, preferably, effected by means of side pins *g g*, which set in a recess, *f*, of said jaw, thus forming a T-head connection. Said rod is turned by means of a thumb-piece, G′. The said jaws (and, preferably, also the other parts of the device) are constructed of hard metal.

The grasping part of hooked jaw E has an inclined inner face, E^2, and the opposite face of jaw F is correspondingly inclined and provided with transverse ridges *f′ f′*.

When the wrench is turned in one direction, said jaws grasp the pipe or coupling firmly. When turned in the other direction they readily release the same.

What we claim as new, and desire to secure by Letters Patent, is—

The bent casing C, provided with recesses *c′ c′*, for the reception of the nut H, and the perforated projections *o*, in combination with handle A, having side extension B, straight jaw F, slotted and perforated at its lower end, screw-bolt G, provided at its upper end with pin *g*, and the pivoted jaw E, substantially as described, and for the purpose set forth.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

CHARLES PETERSON.
ANTON DUNNEBAKE.

Witnesses:
AUGUST KUENZEL,
HENRY LINSEL.