(No Model.)

E. F. BARNES & L. C. STRICKLAND.

OUTSIDE PIPE CUTTER.

No. 301,080. Patented July 1, 1884.

Fig. 1.

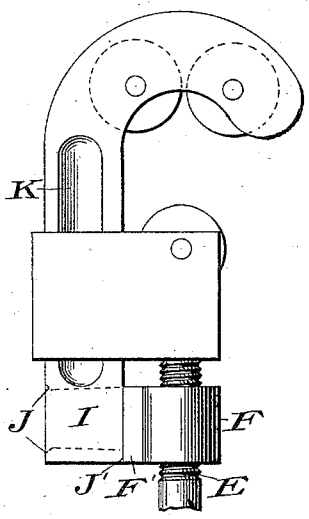
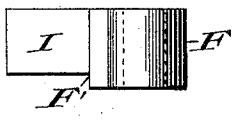


Fig. 2



Witnesses;
Edward C. Rogers
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By Geo. S. Seymour,
Atty

UNITED STATES PATENT OFFICE.

ELBRIDGE F. BARNES AND LORENZO C. STRICKLAND, OF NEW HAVEN, CONNECTICUT.

OUTSIDE PIPE-CUTTER.

SPECIFICATION forming part of Letters Patent No. 301,080, dated July 1, 1884.

Application filed December 29, 1883. (No model.)

To all whom it may concern:

Be it known that we, ELBRIDGE F. BARNES and LORENZO C. STRICKLAND, residing at New Haven, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Pipe-Cutters; and we do declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, which form a part of this specification.

Our invention relates to an improvement in that class of outside pipe-cutters in which the bearing of the operating-screw is made independent of and offsets from the frame of the cutter, the object being to strengthen, simplify, and cheapen cutters of this class.

With these objects in view, our invention consists in providing the bearing of the operating-screw of the cutter with a lateral extension or shank, and the frame of the cutter with a transverse slot extending from its front to its rear face, the shank of the bearing fitting into the slot in the frame.

Our invention further consists in providing the bearing of the operating-screw of the cutter with a lateral extension or shank and with a shoulder, and the frame of the cutter with a transverse slot extending from its front to its rear face, the shank of the bearing fitting into the slot in the frame, and the shoulder thereof bearing against the front face of the same at a point without the slot.

In the accompanying drawings, Figure 1 is a view in side elevation of a pipe-cutter embodying our invention, and Fig. 2 is a similar detached view of the bearing thereof.

Our invention consists, essentially, in providing the bearing F of the operating-screw E with a lateral extension or shank, I, and the frame K of the cutter with a transverse slot, J, extending from its front to its rear face.

Our invention further consists in providing the bearing with a shoulder, F′, which bears upon the front face of the frame at the point J′, which is located without the slot. The said slot and shank are proportioned so as to cause the latter to enter the former with a driving fit. As herein shown, the slot widens as it approaches the rear face of the frame. This is to permit the outer end of the shank of the bearing to be upset into the slot, if desired to permanently secure the bearing to the frame.

In virtue of the construction described, the outward pressure which the screw exerts upon the bearing is opposed by the resistance afforded by the bearing of the whole length of the shank against the walls of the slot, and by the bearing of the shoulder upon the front face of the frame at a point thereon without the slot, whereby the shank is re-enforced in the direct line of the pressure. By this construction the cutter is made equal in effective strength so far as the bearing of the operating-screw is concerned to a cutter having the said bearing cast with the frame. The parts require no fitting, and are readily put together, and as easily taken apart if it becomes necessary to repair the cutter. If the bearing works loose under the pressure of the screw, it may be tightened by a blow upon its outer face.

We are aware that it is not new to make an offsetting bearing for the operating-screw of a pipe-cutter independent of the frame thereof, and hence we do not broadly claim such a construction, but limit ourselves to the specific construction herein shown and described.

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

1. An outside pipe-cutter having the bearing of its operating-screw provided with a lateral extension or shank, which fits into a transverse slot extending from the front to the rear face of the frame of the cutter, substantially as set forth.

2. An outside pipe-cutter having the bearing of its operating-screw provided with a lateral extension or shank and with a shoulder, the former fitting into a transverse slot extending from the front to the rear face of the frame of the cutter, and the latter having bearing upon the front face of the same at a point without the slot, substantially as set forth.

In testimony whereof we have signed this specification in the presence of two subscribing witnesses.

ELBRIDGE F. BARNES.
LORENZO C. STRICKLAND.

Witnesses:
JULIUS TWISS,
GEO. D. SEYMOUR.