

No. 778,278.

PATENTED DEC. 27, 1904.

F. SCHEFFER, JR.

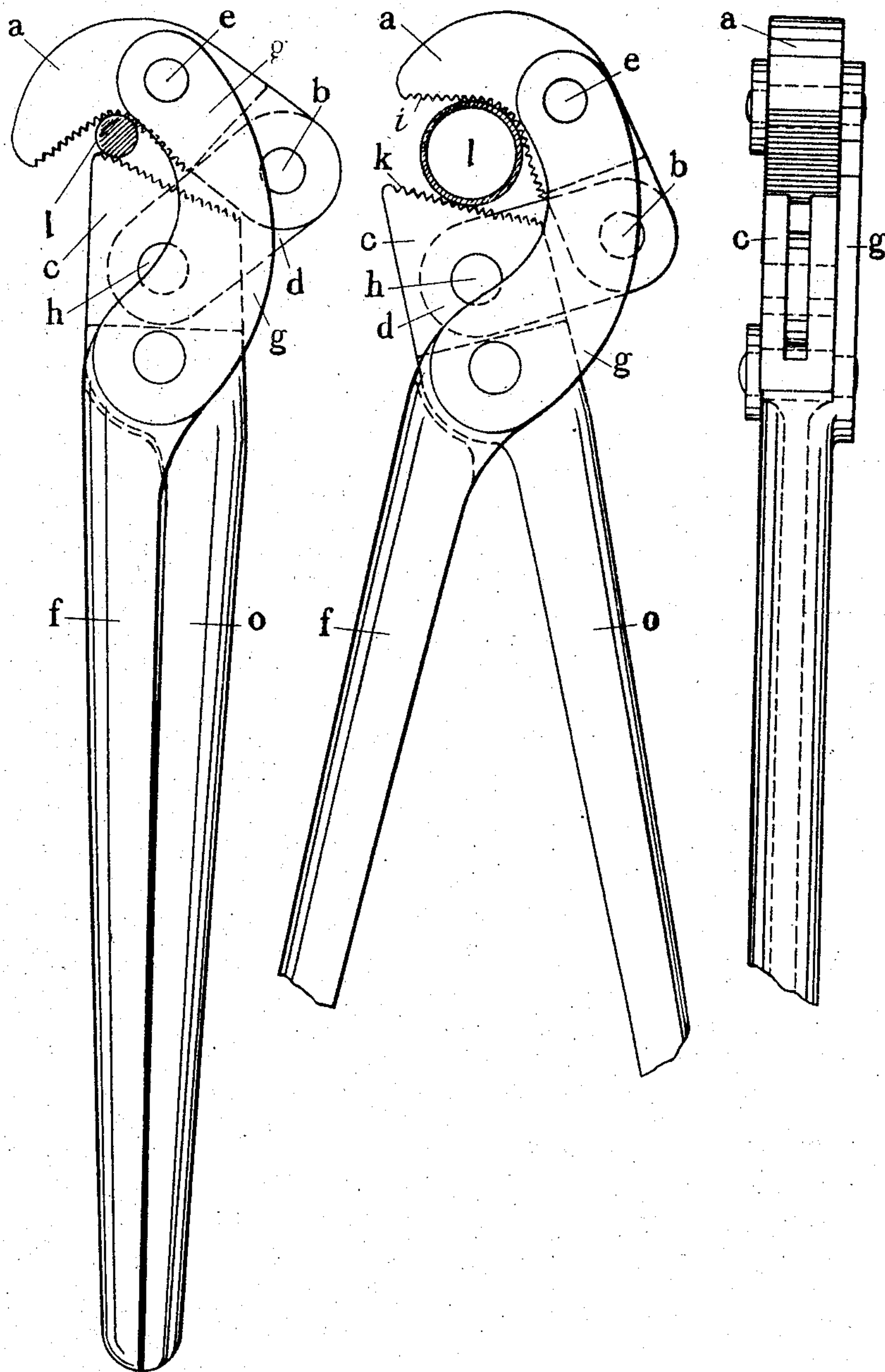
PIPE WRENCH.

APPLICATION FILED MAR. 15, 1904.

Fig. 1

Fig. 2

Fig. 3



Witnesses:
Theodor Granz.
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UNITED STATES PATENT OFFICE.

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PIPE-WRENCH.

SPECIFICATION forming part of Letters Patent No. 778,278, dated December 27, 1904.

Application filed March 15, 1904. Serial No. 198,202.

To all whom it may concern:

Be it known that I, FRITZ SCHEFFER, Jr., a subject of the German Emperor, residing at Remscheid-Haddenbach, in the Province of the Rhine, Kingdom of Prussia, Germany, have invented certain new and useful Improvements in Pipe-Wrenches, of which the following is a specification.

My invention relates to a pipe-wrench whereby pipes and similar objects can be firmly gripped; and the object of my invention is to provide a wrench of this kind which is simple in construction and adapted to securely hold the objects which are placed between the jaws of the wrench against rotation.

In the accompanying drawings, which form part of this specification, and in which similar reference-letters refer to similar parts in the various figures, Figure 1 is a side view of the new pipe-wrench, showing the jaws closed. Fig. 2 is a similar view, the jaws being shown opened. Fig. 3 is a rear end view of the new pipe-wrench.

The jaw (designated by the reference-letter *c*) is formed at the inner end of the lever *o* and is stationary. Coöperating with the jaw *c* the angularly-shaped jaw *a* is provided, which jaw is pivotally connected at *b* with a link *d*, which link is pivoted at *h* to the first jaw *c*, the jaw *a* and the link *d* forming the members of a toggle-lever adapted to be swung around the pivot *h*. To the jaw *a* there is piv-

oted at *e* an arm *g*, the other end of which link is secured to the lever *f* of the pipe-wrench. The inner faces of the jaws *c* and *a* are corrugated, as shown at *k* and *i*, in a known manner in order to more securely grip and hold the objects placed between the jaws.

The operation of the pipe-wrench will be readily understood from the drawings. When the lever *f* is moved toward the lever *o*, the toggle-lever *a d* is swung, by means of the link *g*, around the pivot *h*, whereby the relative position of the pivot *b* with respect to pivot *h* is shifted in such a way as to cause the jaw *a* to approach the stationary jaw *c*, as shown in Fig. 1. Any object placed between the jaws is therefore firmly gripped and securely held against rotation.

What I desire to claim and secure by Letters Patent is—

In a pipe-wrench the combination with a stationary jaw, of an angularly-shaped movable jaw, forming one member of a toggle-lever, the other member of said lever being pivotally connected with the stationary jaw and an arm connecting the movable jaw with one lever of the wrench.

In testimony whereof I affix my signature in presence of two witnesses.

FRITZ SCHEFFER, JR.

Witnesses:

VICTOR W. HELDT,
ENGELBERT VOLMER.