F. P. GOSS.
Pipe-Vise.

No. 217,364. Patented July 8, 1879.

Fig. 1.

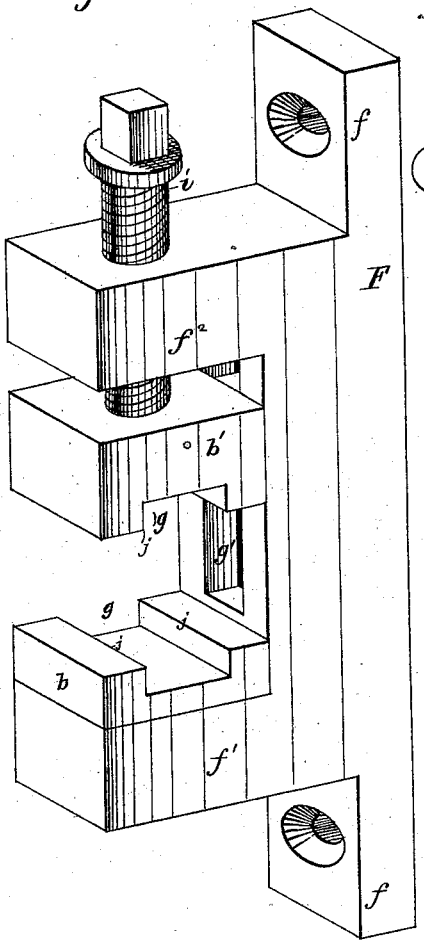
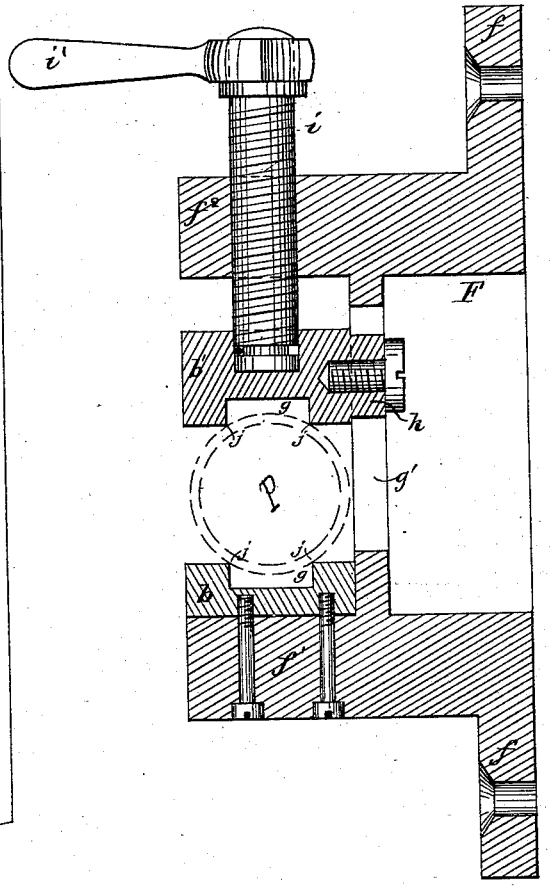


Fig. 2.



Witnesses.
Geo. Willis Pierce.
E. B. Fairchild

Inventor.
F. P. Goss
by Wright & Brown
Attys.

UNITED STATES PATENT OFFICE

FRANCIS P. GOSS, OF SALEM, MASSACHUSETTS.

IMPROVEMENT IN PIPE-VISES.

Specification forming part of Letters Patent No. **217,364**, dated July 8, 1879; application filed December 18, 1877.

To all whom it may concern:

Be it known that I, FRANCIS P. GOSS, of Salem, in the county of Essex and State of Massachusetts, have invented certain Improvements in Pipe-Vises, of which the following is a specification.

My improved pipe-vise consists of a bed-piece and a fixed and a movable jaw, constructed and operated as fully described hereinafter, to firmly gripe pipes, rods, &c., of different sizes.

In the drawings forming part of this specification, Figure 1 is a perspective view of my improved pipe-vise; Fig. 2, a sectional elevation.

The frame or bed-piece F consists of a cast-metal block, *f*, having a longitudinal slot, *g'*, between two projections, f^1 f^2, the former constituting or being the support of the fixed jaw *b*, and the latter having a threaded opening to receive the screw *i*, or supporting any suitable adjusting device by which the movable jaw *b'* is carried over the bed-piece, a pin or screw, *h*, extending from the jaw *b'* into the slot *g'*, guiding the jaw and preventing it from turning.

The jaws may be of steel, but are, preferably, of cast metal, and have recesses or grooves *g*, the sides of which, with the right-angled faces, form parallel biting-edges *j j*, two or more on each jaw.

As the jaws are brought together the pipe or rod *p*, Fig. 2, readily centers itself between the edges *j*, which, penetrating the opposite sides, take a secure hold upon the pipe without greatly marring the same.

The above-described construction is simple and most economical. All the parts may be of cast-iron except the screw *i*, so that if any part is broken it may be easily and cheaply replaced.

I claim—

A pipe-vise consisting of the slotted frame F, its projections f^1 f^2, and stationary jaw *b*, secured to or forming part of the projection f^1, a movable jaw, *b'*, sliding between the projections, and having a pin, *h*, fitting the slot in the frame, and the adjusting-screw *i*, the said jaws having parallel biting-edges *j*, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FRANCIS P. GOSS.

Witnesses:
C. F. BROWN,
A. E. DENISON.