

(No Model.)

G. S. SEARLE.  
PIPE VISE.

No. 455,414.

Patented July 7, 1891.

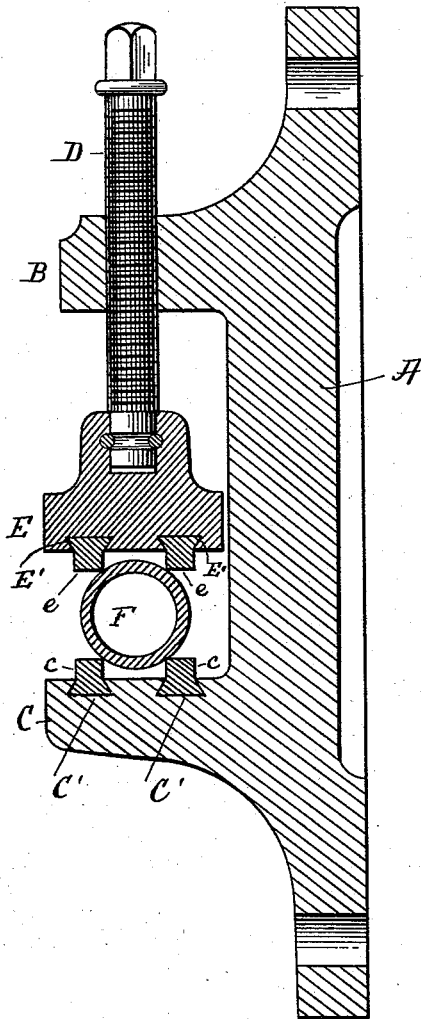


Fig. 2.

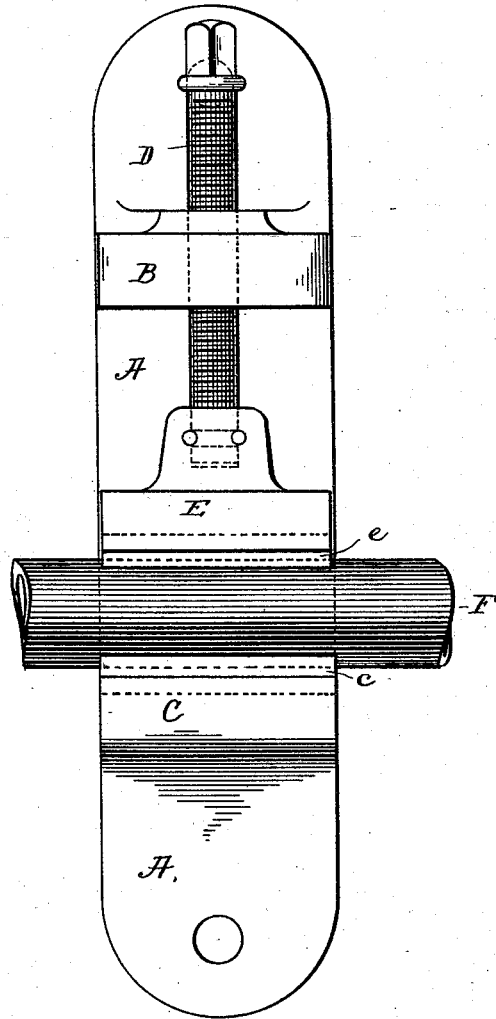


Fig. 1.

witnesses  
Thomas M. Hobbes  
Alice A. Perkins

Inventor  
George S. Searle  
by Allan Audin  
his atty.

# UNITED STATES PATENT OFFICE.

GEORGE S. SEARLE, OF SALEM, MASSACHUSETTS.

## PIPE-VISE.

SPECIFICATION forming part of Letters Patent No. 455,414, dated July 7, 1891.

Application filed March 12, 1891. Serial No. 384,800. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE S. SEARLE, a citizen of the United States, and a resident of Salem, in the county of Essex and State of Massachusetts, have invented new and useful Improvements in Pipe-Vises, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention relates to improvements in pipe-vises, and it is carried out as follows, reference being had to the accompanying drawings, wherein—

Figure 1 represents a front elevation, and Fig. 2 represents a central longitudinal section, of the invention.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

The improved pipe-vise consists of a plate or frame A in one piece, with which is cast two projections B and C, the former having a screw-threaded perforation for the reception of the adjusting-screw D, by which the movable jaw is adjusted, and the latter constituting the stationary jaw, as is common in devices of this kind.

E is the movable jaw, which is loosely connected in a suitable manner to the lower end of the adjusting-screw D, as shown in the drawings, so as to cause said jaw to follow the longitudinal adjustment of the screw D.

In the face of the stationary jaw C, I make a pair of parallel dovetailed grooves C' C', in which are inserted the dovetailed holding or clamping bars c c, which are preferably made of hardened steel and secured in the dovetailed grooves, as shown in the drawings.

E' E' are similar and parallel dovetailed grooves in the face of the movable jaw E, in which are inserted corresponding dovetailed

holding or clamping bars e e, as shown in the drawings.

F in Fig. 2 represents a pipe as being held and confined between the four inner corners of the respective bars c c e e. In case the inner edges of the said holding-bars should become worn, defaced, or broken, they may easily be removed and reversed in position, thus utilizing both edges of each of said bars, by which the life and durability of the vise is materially increased. When both edges of any bar are broken, blunted, or worn, such bar may easily be removed and replaced by another one at a very small expense. By this arrangement and construction I am able to produce a pipe-vise composed of very few parts, and having movable and adjustable holding-bars on the stationary and movable jaws, which bars are readily secured to, adjusted on, and removed from said jaws, as occasion may require.

Having thus fully described the nature, construction, and operation of my invention, I wish to secure by Letters Patent, and claim—

The herein-described pipe-vise, consisting of a frame A, having a stationary jaw C and movable jaw E, and a screw D for adjusting the latter, said jaws having dovetailed parallel grooves C' C' E' E', and reversible and removable dovetailed holding-bars c c e e inserted in the said grooves, substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, on this 9th day of February, A. D. 1891.

GEORGE S. SEARLE.

Witnesses:

ALBAN ANDRÉN,  
ALICE A. PERKINS.