J. P. FEGELY AND J. H. NEWHARD.

VISE.

APPLICATION FILED NOV. 23, 1921.

1,435,595. Patented Nov. 14, 1922.

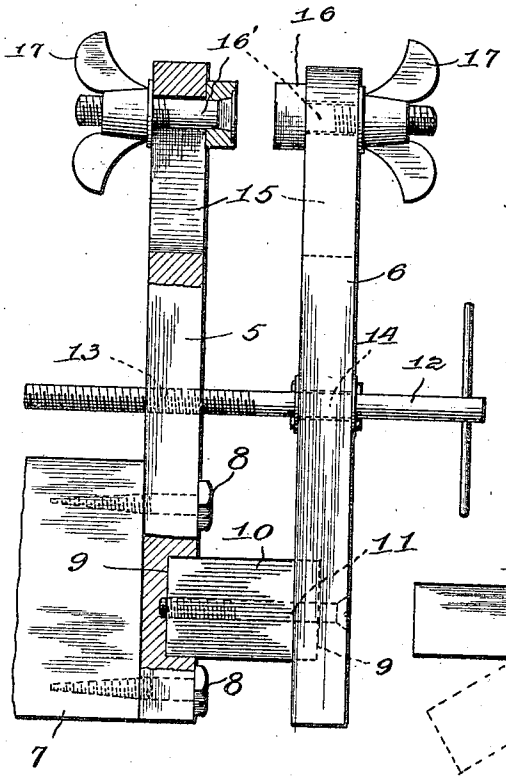


Fig. 1.

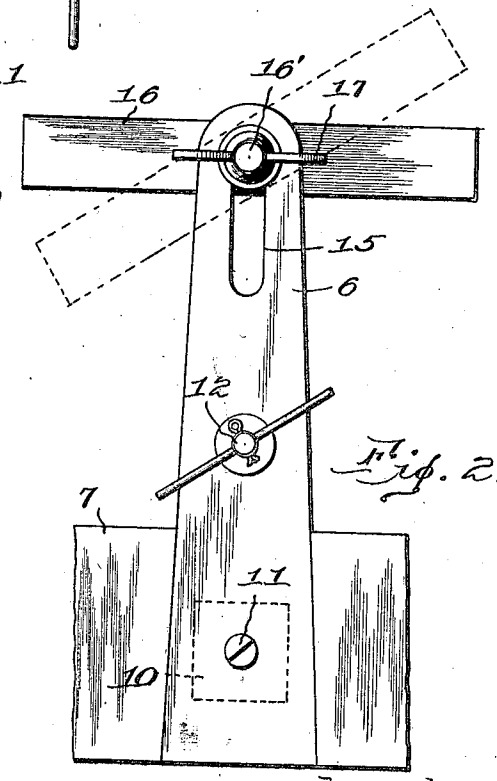


Fig. 2.

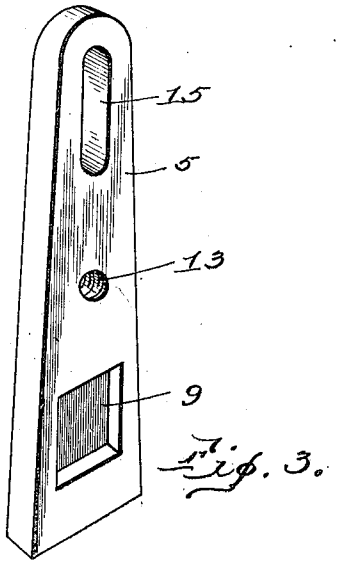


Fig. 3.

Inventors.
John P. Fegely.
John H. Newhard.

By Norman D. Whitaker
their Attorney.

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UNITED STATES PATENT OFFICE.

JOHN P. FEGELY AND JOHN H. NEWHARD, OF ALLENTOWN, PENNSYLVANIA.

VISE.

Application filed November 23, 1921. Serial No. 517,246.

To all whom it may concern:

Be it known that we, JOHN P. FEGELY and JOHN H. NEWHARD, citizens of the United States, and residents of Allentown, in the county of Lehigh and State of Pennsylvania, have invented new and useful Improvements in Vises, of which the following is a specification.

Our invention relates to vises and its principal object is to provide a vise particularly designed for holding fragile articles such as piston rings while lapping or filing the ends thereof.

A further object of the invention is to provide a vise whose jaws may be adjusted to various angles with respect to their supporting means.

Another general object of the invention is to provide a vise of this character which is simple of construction, consists of few parts and can be manufactured and marketed at a minimum cost.

With the preceding and other objects and advantages in mind that will become apparent from the following disclosure the invention consists in the novel combination of elements, constructions and arrangement of parts to be set forth in detail, claimed and illustrated in the accompanying drawings wherein:

Figure 1 is a side elevation of our improved vise having parts shown in section,

Figure 2 is a front elevation of the same the dot and dash lines indicating the adjusted position of one of the jaws, and

Figure 3 is a perspective of one of the vertical standards embodied in the invention.

Referring in detail to the drawings wherein like characters of reference designate like parts through the several views, the numerals 5 and 6 designate a pair of spaced parallel vertical standards, the former being secure to a base 7 by fastenings 8. These vertical standards have their opposed faces formed with horizontally alined rectangular recesses 9 adjacent their lower ends and interposed between these standards is a rectangular elastic spacer member 10 whose ends are received in the recesses 9 as shown in Figure 1. Passing transversely through the lower end of the standard 6 and longitudinally through the elastic member 10, and engaged in the standard 5 is a screw 11 which serves to hold these members together.

In order to move the standard 6 toward the standard 5 we provide a hand operated screw 12 which has threaded engagement with a threaded opening 13 in the standard 5 and swivel connection with the standard 6 as indicated at 14. The upper ends of the standards 5 and 6 are provided with vertically extending walls 15. For each of the standards there is provided a horizontal jaw 16 each of which is disposed against the inner face of its respective standard and carries a centrally disposed bolt 16 which extends through the slots 15. Wing-nuts 17 are provided for the bolt 16 which permit the jaws to be adjusted vertically as well as at various angles with respect to the horizontal as shown in dotted lines in Figure 2.

With our improved vise it will be seen that the elastic member 10 will prevent the standard 6 from being moved too far toward the standard 5 and thereby bend or otherwise damage a fragile article such as a piston ring held between the jaws 16.

It is to be understood that the form of our invention herein shown and described is to be taken as a preferred example of the same and that various changes in the shape, size and arrangement of parts may be resorted to without departing from the spirit of the invention or the scope of the subjoined claims.

Having thus described our invention what we claim as new and desire to secure and protect by Letters Patent of the United States is:

1. A vise comprising a pair of vertical parallel standards, one being adapted to be fixed to a base, the opposed ends of the standards being provided with recesses adjacent their lower ends, an elastic block interposed between the standards and having their ends received in the recesses, and a screw engaged with the standards and passing through the elastic block and an adjusting screw engaged with both standards.

2. A vise comprising a pair of standards

one of which being fixed and the other movable toward the same, an elastic member interposed between the standards manually operable means for moving the movable standard towards the fixed standard, both standards being provided with vertically parallel slots, a jaw for each standard, a screw carried by each jaw and passing through the slots, and wing-nuts engaged with the screws whereby to permit the jaws to be adjusted vertically or angularly with respect to the horizontal.

JOHN P. FEGELY.
JOHN H. NEWHARD.