

No. 868,966.

PATENTED OCT. 22, 1907.

D. R. CHASE.

WISE.

APPLICATION FILED MAY 27, 1907.

FIG. 1.

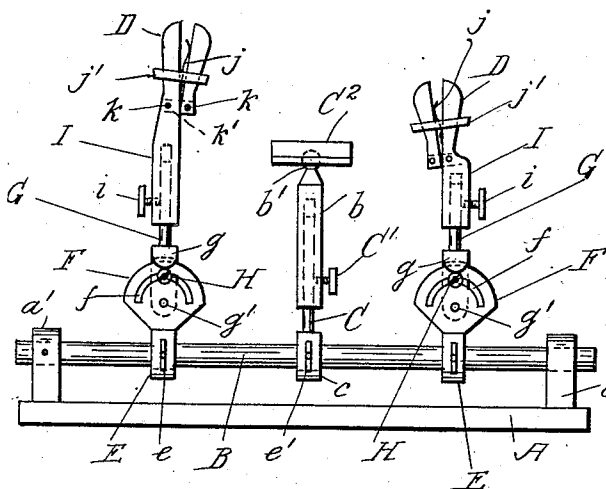


FIG. 3.

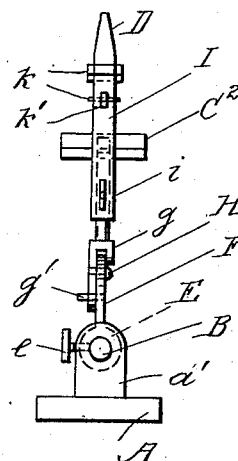


FIG. 2.

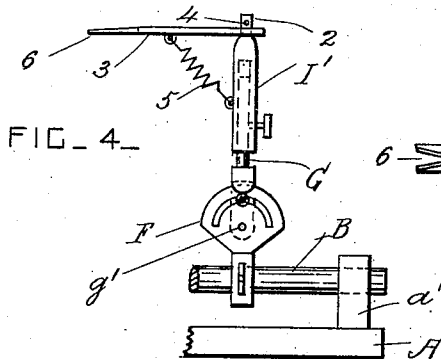
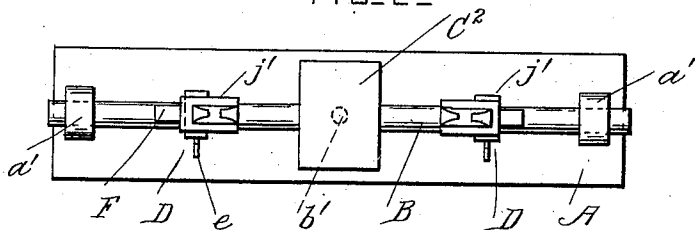
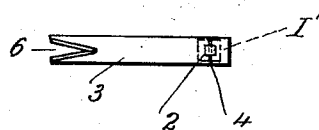


FIG. 5.



WITNESSES:

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UNITED STATES PATENT OFFICE.

DANIEL R. CHASE, OF FINLEY, NORTH DAKOTA.

VICE.

No. 868,966.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, DANIEL R. CHASE, a citizen of the United States, residing at Finley, in the county of Steele and State of North Dakota, have invented certain new and useful Improvements in Vises; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to vises or work-holders used by jewelers and others for holding small articles while being soldered; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed.

In the drawings, Figure 1 is a front view of the vise. Fig. 2 is a plan view of the vise. Fig. 3 is an end view of the same. Fig. 4 is a side view of an alternative form of vise-jaw used for collar buttons. Fig. 5 is a plan view of the jaw shown in Fig. 4.

A is a supporting base, provided with brackets or blocks *a'*. B is a cylindrical shaft which is secured in the said brackets.

C² is a work-table which is connected to a tubular pillar *b* by a ball and socket joint *b'* of any approved construction. This ball and socket joint enables the table to be turned around and to be set at any desired angle. The tubular pillar *b* is slidable over a spindle C which projects from a socket *c*. The socket *c* is slidable longitudinally and adjustable circumferentially upon the shaft B, and *c'* is a clamping screw for securing the socket in position. The said pillar and spindle form a telescopic support for the table, and C' is a set-screw for holding the tubular pillar in any desired position upon the said spindle. D are two similar vises supported by the said shaft B, one upon each side of the said table. One vise is longer than the other, but, as, with this exception, they are both alike, the description will be confined to one of them. Each vise is provided with a socket E which is adjustable longitudinally and circumferentially on the shaft B, and which is provided with a set-screw *e* for holding it in position. The socket E is provided with a quadrant-plate F having a curved slot *f*.

G is a spindle provided with a forked jaw *g* at its lower end which is pivoted to the said quadrant-plate by a pin *g'*. H is a clamping bolt or screw which engages with the said jaw, and which is slidable in the said curved slot. This bolt H enables the spindle to be clamped to the socket after it has been adjusted to any desired angle.

I is the tubular shank of a vise jaw which is slidable upon the spindle G, and *i* is a set-screw for securing the said shank to the said spindle after the position of the vise jaw has been adjusted. The vise D is provided with any approved form of vise jaws. The two jaws forming each pair of jaws are pivotally connected to-

gether by pins *k* and a link *k'*. These pivoted vise jaws are preferably provided with an opening spring *j*, and a slidable locking-collar or ring *j'*, but they may be of any other approved construction in carrying out this invention.

In the form of jaw shown in Figs. 4 and 5, a tubular shank I' is provided which is adjustable upon one of the spindles G, in a similar manner to the shank I. The shank I' is provided with a rectangular end portion 2, and 3 is a forked jaw which engages loosely with this end portion 2 so that the jaw 3 is free to move pivotally in a vertical direction. A pin 4 is provided for retaining the jaw in engagement with the said end portion. A spring 5 is provided and secured between the said forked jaw and the shank I', so that the forked outer end portion 6 of the jaw is pulled downwardly, and is thereby adapted to hold a collar button or other small article upon the table.

The vise jaws and the table are slid and adjusted so as to hold the work to the best advantage, and the soldering is effected while the work is held in the best possible position.

What I claim is:

1. The combination, with a stationary support, of a socket connected to the said support and provided with a quadrant-plate, a telescopic support pivoted to the said quadrant-plate and provided with a locking-device, means for engaging the work carried by the said telescopic support, and a table for supporting the work also carried by the said stationary support.

2. The combination, with a stationary support, of a socket connected to the said support and provided with a quadrant-plate, a telescopic support pivoted to the said quadrant-plate and provided with a locking-device, a jaw for holding the work loosely connected to the said telescopic support, a spring which moves the said jaw downwards, and a table for supporting the work under the said jaw also carried by the said stationary support.

3. The combination, with a stationary support, of a socket connected to the said support and provided with a quadrant-plate, a telescopic support pivoted to the said quadrant-plate and provided with a locking-device, means for engaging the work carried by the said telescopic support, a second telescopic support also carried by the said stationary support, and a table for supporting the work provided with a universal ball and socket joint which connects it to the last said telescopic support.

4. The combination, with a base, and a shaft secured thereto; of two adjustable vises adjustably connected to the said shaft, each said vise comprising a socket for engaging the said shaft provided with a quadrant-plate, a spindle provided with a forked end portion which is pivoted to the said plate, a fastening device for securing the said spindle to the said plate, and means for engaging the work provided with a tubular shank which is adjustable on the said spindle.

In testimony whereof I have affixed my signature in the presence of two witnesses.

DANIEL R. CHASE.

Witnesses:

FRANK E. CURRY,
W. H. POTTER.