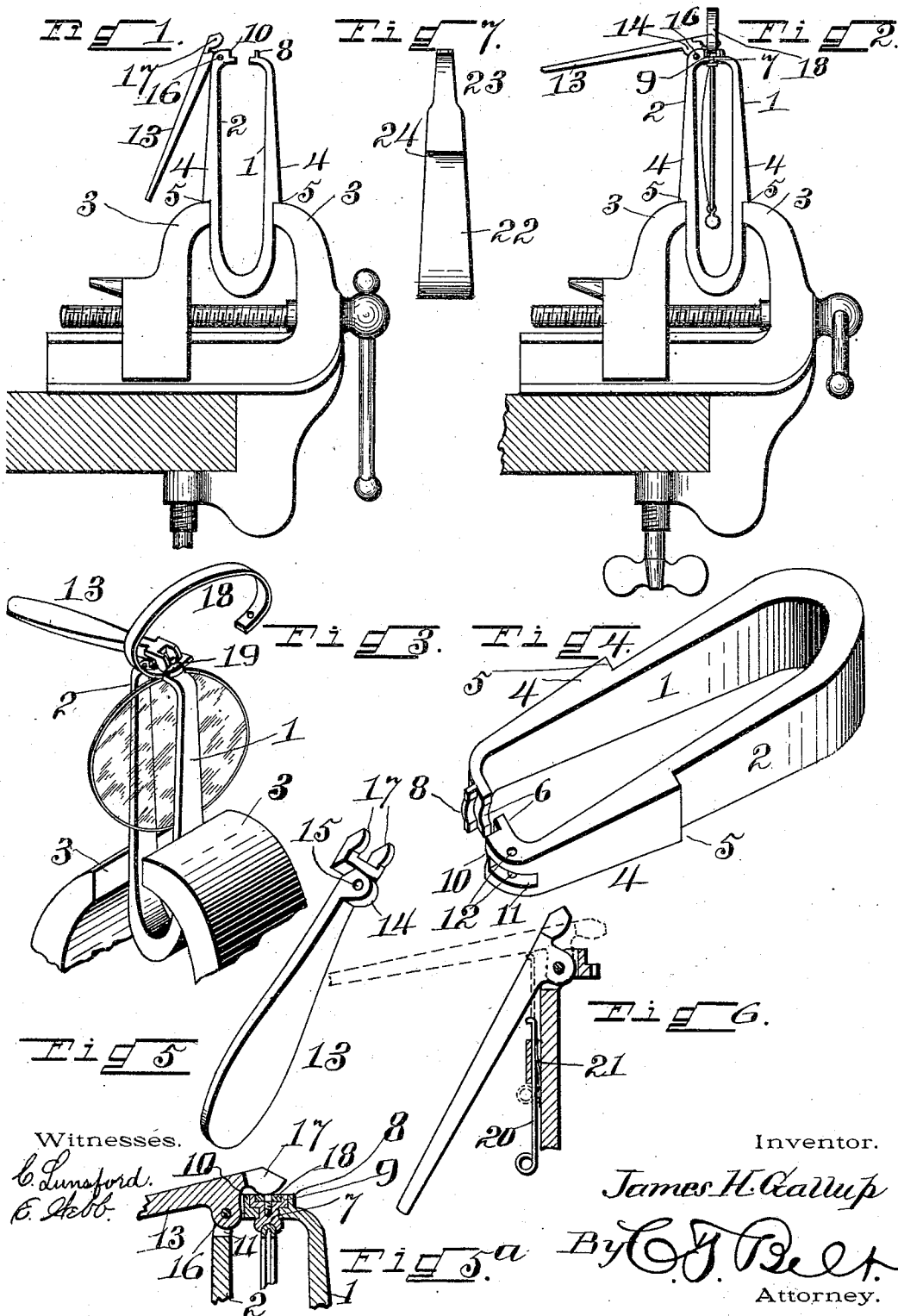


(No Model.)

J. H. GALLUP.
WORK HOLDER FOR EYEGLASSES.

No. 549,354.

Patented Nov. 5, 1895.



UNITED STATES PATENT OFFICE.

JAMES H. GALLUP, OF DENVER, COLORADO.

WORK-HOLDER FOR EYEGLASSES.

SPECIFICATION forming part of Letters Patent No. 549,354, dated November 5, 1895.

Application filed July 9, 1895. Serial No. 555,409. (No model.)

To all whom it may concern:

Be it known that I, JAMES H. GALLUP, a citizen of the United States, residing at Denver, in the county of Arapahoe and State of Colorado, have invented certain new and useful Improvements in Work-Holders for Eyeglasses, of which the following is a specification.

This invention relates to watchmakers' tools, and particularly to a tool for use in the manufacture and repair of eyeglasses; and its novelty will be fully understood from the following description and claims, when taken in connection with the annexed drawings.

The object of the invention is to provide an implement by the aid of which the eyeglass-spring and nose-clamp may be quickly, firmly, and accurately connected to the rim without loosening or in any way distorting the lens-rim, frameless-lens strap, or injuring the lens.

A further object of the invention is to provide a pair of tweezers or a clamp to be used in connection with a bench-vise to hold eyeglasses by the rim-stud, so as to leave both hands of the operator free to place the spring and nose-clamp in position to be secured to the said stud and pivotally connect a lever with the said clamp to hold the said spring and nose-clamp in position while being secured.

With these objects in view the invention resides in an implement made in the general form of a spring-clamp, the free ends being constructed to conform to the neck and head of an eyeglass-rim stud, so as to firmly grasp and clamp the same and leave an unobstructed clearance for placing the eyeglass-spring and nose-clamp in position.

The invention resides particularly in a tool or implement made in the general form of a clamp having its operative ends formed into a shape to conform to the neck and head of the eyeglass-rim stud, with a lever pivoted in one of said ends, and having jaws which straddle the set-screw hole of the said stud and hold the spring and nose-clamp upon the head of the stud while the set-screw is put in place.

In the accompanying drawings, forming part of this application, Figure 1 is a side elevation of my implement held in position by a bench-vise to receive a pair of eyeglasses.

Fig. 2 is a similar view with the neck and head of the stud of a pair of glasses clamped, showing the lever-jaws engaging the eyeglass-spring to hold it in position to secure the latter to the stud-head. Fig. 3 shows the above in perspective view, the spring connected to one glass, the clamp without vise-rests, and the vise partly broken away. Fig. 4 is an enlarged perspective view of the clamp. Fig. 5 is an enlarged perspective view of the lever. Fig. 5^a is a central vertical section through the stud, showing the parts held in position to receive the set-screw. Fig. 6 is a vertical section of the implement, partly broken away, showing the clamp provided with a spring and slidable bar, the latter, with the lever, being shown raised in dotted lines. Fig. 7 is a side elevation of a further modified form of my implement.

The same reference-numerals denote the same parts throughout the several figures of the drawings.

The clamp is preferably made from a single piece of metal bent in the middle to form two parallel spring-arms 1 and 2, which taper in width and thickness from such bend to their ends.

In order to insure proper position of the clamp in the vise and to prevent the latter's displacement when the vise-jaws 3 are opened, I form upon the outer upper face of the arms 1 and 2 an enlargement 4, which tapers from the arm ends and terminates in a shoulder 5, adapted to rest directly upon the top faces of the vise-jaws 3. The said shoulder is of sufficient depth to keep the clamp upon the vise-jaws when the grip of the latter has been released, so that the clamp is always in position.

The inwardly-turned ends of the arms 1 and 2 have a semicircular bearing 6, adapted to engage the neck 7 of the eyeglass-stud, and the end of the arm 1 has a vertical projection 8 at right angles to the circular bearing 6 to engage one side of the stud-head 9. This projection is curved or semicircular in part, so that either a round or square stud-head may be grasped.

The end of the arm 2 is enlarged and also has the same bearing form of projection 10 as the arm 1 and is provided with a slot 11 and pivot-hole 12 for the purpose of connecting

the lever 13. This lever 13 is provided with a pivot-ear 14, having a pivot-hole 15, and is secured in the slot 11 by means of the pivot-pin 16. The pivoted end of the lever 13 is
 5 forked or made with two jaws 17, which when the lever is raised straddles the set-screw hole of the stud and engages the eyeglass-spring 18 to hold it upon the stud-head until the set-screw 19 is placed.

10 As shown by Fig. 6, the structure of the lever and clamp is just the same as that hereinbefore described; but a hand-bar 20, controlled by a plate-spring 21, is provided to raise the lever and keep it so until the eye-
 15 glass-spring and nose-clamp are secured, without the necessity of holding the lever up by hand.

The structure of the ends of the arms 22 shown in Fig. 7 is identical with those seen
 20 in Figs. 1, 2, 3, and 4, except that such ends are reduced at 23, the arms made lighter, the vise-rests 24 form a thumb and finger hold, and the lever is removed. The implement may thus be used in handling eyeglass-studs
 25 or other articles.

It is believed that the mode of operating the device has been made clear by the foregoing description, with reference to the drawings; but it will be observed that the clamp
 30 must be set in the vise with the arm carrying the lever farthest from the operator, so as to give unobstructed working space, while a

pair of eyeglasses (with or without the lens) is inserted between the arms, with the head of the stud resting upon the top of the semi-
 35 circular bearings.

I do not wish to be understood as limiting myself to any special size or dimension of the clamp or lever, or either, to the clamp made
 40 of a single piece of metal, nor to the clamp having vise-seats; but

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

1. The combination with the arms the ends of which are made to conform to the shape of
 45 eye glass studs, of the lever pivoted to one of said arm ends, and a slidable spring controlled bar adapted to operate the said lever, as set forth.

2. The combination with the arms the ends
 50 of which are made to conform to the shape of the eye glass studs, of the lever pivoted to one of said arm ends and having jaws which straddle the screw hole of such studs and hold the
 55 eye glass spring and nose clamp while the latter two are being secured to the studs, as set forth.

In witness whereof I hereunto set my hand in the presence of two witnesses.

JAMES H. GALLUP.

Witnesses:

P. L. HUBBARD,
 JAMES H. THREW.