

July 28, 1936.

E. MUNSON

2,049,075

PUNCH

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Fig. 1.

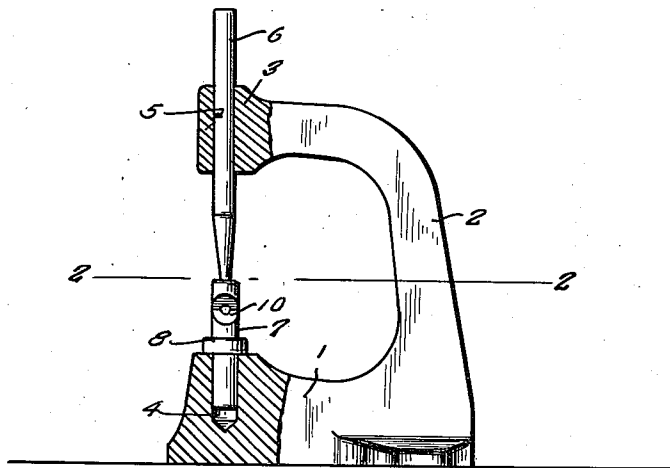


Fig. 2.

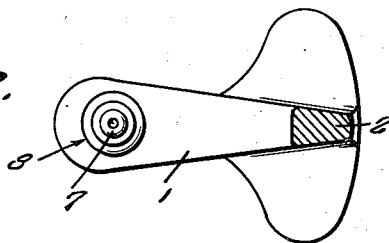


Fig. 4.

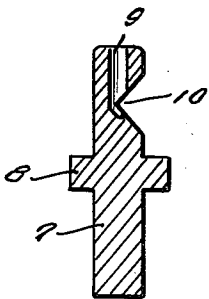


Fig. 3.

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UNITED STATES PATENT OFFICE

2,049,075

PUNCH

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Application November 20, 1935, Serial No. 50,780

2 Claims. (Cl. 164—94)

This invention relates to a punch which is mainly designed for use by opticians and optometrists in repairing spectacles or eyeglass frames, the general object of the invention being to provide a punch which will leave one hand of the user free to hold the eyeglass frame and the other hand to hold the hammer which drives the punch against the object to be removed.

Another object of the invention is to so construct and arrange the parts that complete visibility of the screw on the eye glass frame and the punch point of the device is permitted, thus avoiding danger of injuring the eyeglass frame.

Another object of the invention is to provide the device with a reversible chuck, one end of which has a bore for receiving the screw or rivet driven out of the same by the punch and the other being solid so that it will form an anvil when the device is used for riveting.

This invention also consists in certain other features of construction and in the combination and arrangement of several parts, to be hereinafter fully described, illustrated in the accompanying drawing and specifically pointed out in the appended claims.

In describing the invention in detail, reference will be had to the accompanying drawing wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is an elevation with parts in section of the device.

Figure 2 is a section on the line 2—2 of Figure 1.

Figure 3 is a longitudinal sectional view through the chuck.

Figure 4 is a view of the punch.

In this drawing the numeral 1 indicates the base of the device which is preferably of the shape shown in Figure 2 and an arm 2 rises from the rear part of the base and has its upper end curving to place the enlarged part 3 thereof over the bore 4 formed in the front part of the base, the part carrying the bore being enlarged and having a flat top. The part 3 is also formed of a bore 5 for receiving the needle-like punch 6 which has a sliding fit in the bore 5.

A reversible chuck 7 is of elongated form and has a collar 8 intermediate its end for resting on the flat part of the front end of the base. One end of the chuck has a bore 9 therein and a recess 10 in one side thereof which communicates with the inner end of the bore. The other end part of the chuck is solid and either end part can fit in the bore 4 with the shoulder resting on the flat part. Thus it will be seen that both the lower end of the punch and the upper part of the chuck are

clearly visible so that the frames of spectacles or eyeglasses and the like can be readily placed on the chuck and held in position by one hand while the other hand holds the hammer for striking the upper end of the punch a blow to force a screw, rivet or the like in the frame. When a screw or rivet is to be removed from a frame the bored end of the chuck is placed uppermost so that the rivet or screw will drop into the bore and can be removed through the recess 10. However, when the device is to be used for riveting or the like the chuck is reversed so that the solid end will be uppermost to act as an anvil.

The chuck is long enough to allow easy admittance of a frame in position for extracting or riveting and the chuck is narrow enough to allow the frame to come directly under the punch.

It is thought from the foregoing description that the advantages and novel features of the invention will be readily apparent.

It is to be understood that changes may be made in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What is claimed is:—

1. A device of the class described comprising a base, an arm rising from the rear part of the base and having its upper end curving forwardly, the front end of the base and the front end of the arm each having a vertically arranged bore therein, a punch passing through the bore of the arm adapted to be hit by a hammer and a chuck fitting in the bore of the base, said chuck having a collar intermediate its ends and one end part being solid and the other having a longitudinally extending bore therein and a recess in one side thereof communicating with the inner end of the bore, whereby either the bored end of the chuck can be placed uppermost or the solid end placed uppermost.

2. A device of the class described comprising a base member, an upper member, means connecting the members, said members having vertically aligned bores provided therein, a punch passing through the bore of the second-mentioned member adapted to be hit by a hammer, a chuck fitting in the bore of the base member, said chuck having a collar intermediate its ends and one end part being solid and the other having a longitudinally extending bore therein, and a recess in one side thereof communicating with the inner end of the bore whereby either the bored end of the chuck can be placed uppermost or the solid end placed uppermost.

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