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BENCH MOUNT FOR LOCKING JAW PLIERS

Filed July 9, 1959

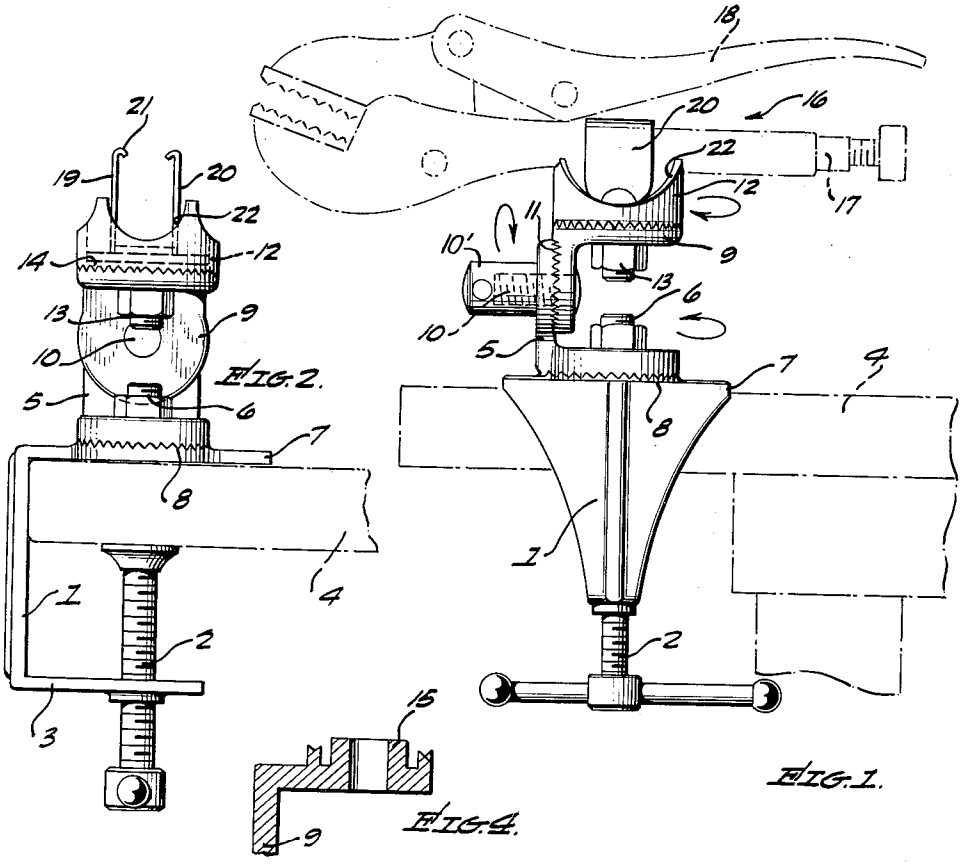


FIG. 2.

FIG. 4.

FIG. 1.

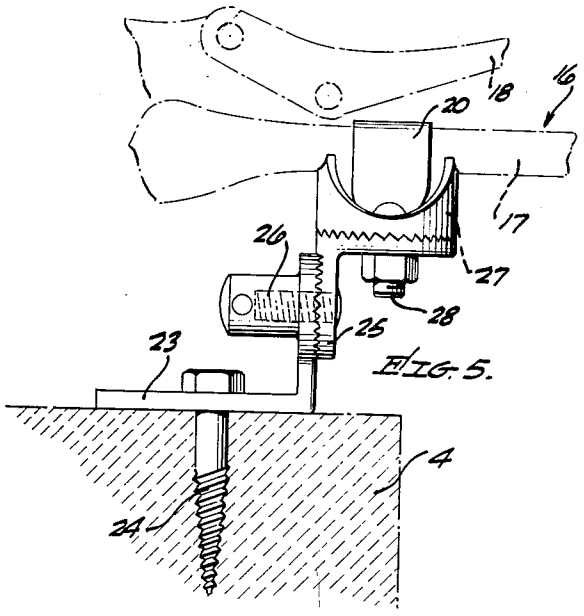


FIG. 5.

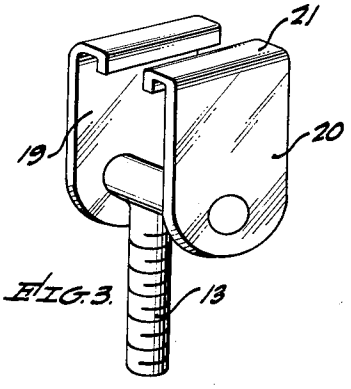


FIG. 3.

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BENCH MOUNT FOR LOCKING JAW PLIERS

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This invention relates to a bench mount for locking jaw pliers whereby such pliers may be fixedly attached to a bench or the like, so that the work piece held in the pliers may be worked upon with both hands and, therefore, more effectively worked upon.

An object of my invention is to provide a novel mount for locking jaw pliers so that these pliers may be attached to a bench or the like, and also so that the work piece may be held at various angles and positions so that it may be more effectively worked upon by the workman.

Another object of my invention is to provide a novel mount for locking jaw pliers of the character stated, in which the pliers can be readily removed from the mount for various other uses as required.

Still another object of my invention is to provide a novel bench mount for locking jaw pliers in which the pliers may be rotated, tilted, or adjusted after the pliers are gripped in the mount and as might be required by the workman.

Still another object of my invention is to provide a novel bench mount of the character stated, which is simple in construction and easy to manipulate.

Other objects, advantages and features of invention may appear from the accompanying drawing, the subjoined detailed description and the appended claims.

In the drawing:

FIGURE 1 is a side elevation of my bench mount for locking paw pliers.

FIGURE 2 is an end view of the same.

FIGURE 3 is a perspective view of the pliers holding fingers.

FIGURE 4 is a fragmentary transverse sectional view of one of the brackets of the bench mount.

FIGURE 5 is an end view of a modified form of bench mount.

Referring more particularly to the drawing, it is frequently very desirable to fixedly mount locking jaw pliers so that a work piece can be held as though it were in a vise and, furthermore, so that the work piece can be rotated or adjusted to various positions as might be required by the workman. The bench mount consists of a substantially U-shaped bracket **1**, which includes a screw **2** threaded through the lower arm **3** of the bracket **1**. The screw **2** engages the bench or the like **4**, thus fixedly mounting the bracket **1** to the bench. An angle **5** is rotatably mounted on the bracket **1** by means of the bolt **6** which extends through the horizontal arm of the angle **5**, and also the top plate **7** of the bracket **1**. Cooperating teeth or serrations **8** in the angle **5** and the top plate **7** of the bracket **1** will hold the angle in its various adjusted positions after the nut on the bolt **6** has been tightened. Thus the mount can be rotated around a vertical axis to various required positions. A second angle fitting **9** is adjustably mounted on the angle **5** by means of the bolt **10** which extends through both of these members. A nut **10'** is threaded on the bolt **10** to hold the members **5** and **9** together. The matching faces of the angle **5** and the fitting **9** is serrated or toothed as shown at **11** so that these parts will remain in their various required adjusted positions. A cup **12** is mounted on the upper face of the fitting **9**, as shown in FIGS. 1 and 2, and this cup is held

in position on the fitting **9** by means of the bolt and nut **13**. The engaging faces of the cup **12** and fitting **9** are also toothed or serrated, as shown at **14**, to prevent possible slippage to these members relative to each other after they have been adjusted. The upper face of the fitting **9** is provided with an annular projection **15** which extends into the bottom of the cup **12** for the purpose of centering this cup and to properly align the teeth **14**.

The locking jaw pliers **16** are of a usual and well known type, including what is termed a fixed arm **17** and a pivoted or movable arm **18**. The arm **17** is substantially U-shaped in cross-section and is gripped and held in the cup **12** by the following means: A pair of fingers **19–20** are fixedly mounted on the bolt **13** and these two fingers are properly spaced to engage the sides of the arm **17**. The upper ends of the fingers **19** and **20** are each formed with a hook **21** to engage the edge of the U-shaped arm **17**. Thus when the nut on the bolt **13** is tightened the cup **12** will be pressed tightly against one arm of the fitting **9**, and also the fingers **19** and **20** will be pulled downwardly against the arm **17** of the locking pliers **16**. Thus the entire plier gripping assembly is tightly held in position. The upper edge of the cup **12** is notched, as shown at **22**, and these notches receive the arm **17** of the locking pliers, as shown in FIG. 1, thus securely holding the locking pliers on the cup **12** and still permitting the movable arm **18** of the pliers to be manipulated so that a work piece can be gripped in the jaws of the pliers.

In the modification, shown in FIG. 5, the bracket **23** which attaches the mount to the bench **4** is formed in the shape of an angle and is fixedly attached to the bench by means of suitable bolts or wood screws **24**. The fitting **25** is identical in construction to the fitting **9** and is attached to the vertical arm of the bracket **23** by means of the bolt **26**. The cup **27**, in which the pliers **16** are fastened, is identical in construction to the cup **12** and is attached to the horizontal arm of the fitting **25** by means of the bolt **28**, which is identical to the bolt **13** which is a part of the pliers engaging fingers previously described. The pliers **16** can be gripped and held in a fixed position on the bench **4** in the same manner as previously described, and can be variously tilted and rotated to different positions which are required for the particular work piece gripped by the pliers.

Having described my invention, I claim:

1. A bench mount for locking jaw pliers comprising a bracket, means securing said bracket to a bench, an angle, a vertically extending bolt pivotally coupling said angle and bracket, a fitting, a horizontally extending bolt coupling said fitting and said angle, a cup adapted and arranged to receive one arm of a locking jaw plier therein, a vertically extending bolt connecting the cup and the fitting permitting pivotal adjustment of said cup, and a pair of spaced fingers mounted on the last named bolt, said fingers engaging and releasably gripping one arm of a locking jaw plier to hold the plier in the cup.

2. A bench mount for locking jaw pliers comprising a bracket, means securing said bracket to a bench, an angle, a vertically extending bolt pivotally coupling said angle and bracket, a fitting, a horizontally extending bolt coupling said fitting and said angle, a cup adapted and arranged to receive one arm of a locking jaw plier therein, a vertically extending bolt connecting the cup and the fitting permitting pivotal adjustment of said cup, and a pair of spaced fingers mounted on the last named bolt, a hook on the upper ends of each of said fingers, said hooks en-

gaging and releasably gripping one arm of a locking jaw plier to hold the plier in the cup.

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