

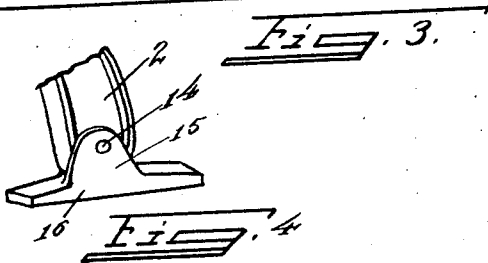
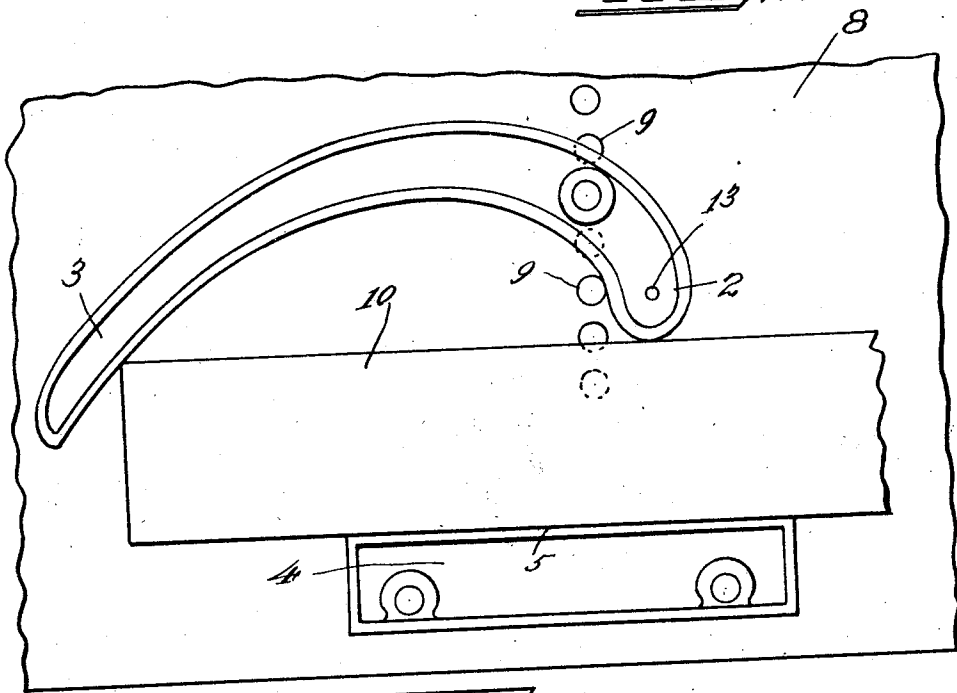
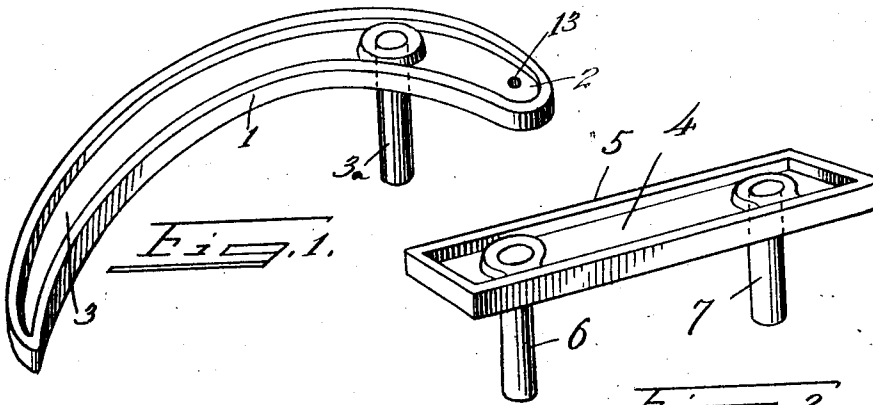
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BENCH VISE

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UNITED STATES PATENT OFFICE.

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BENCH VISE.

Application filed September 26, 1923. Serial No. 664,873.

To all whom it may concern:

Be it known that I, JACK PUTERBAUGH, a citizen of the United States, and a resident of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Bench Vises, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming part of this specification.

The object of my invention is to provide a simple, cheap and effective construction to be used on the work table, for effectively holding wooden pieces which it is desired to plane or act upon without the necessity of utilizing the ordinary bench vise or permanently nailing or securing upon the table surface any block or other device against which to abut the wood bar under treatment.

My invention is especially directed to a construction which can be applied to the table for use at a moment's notice, and which can be as easily removed from the table, after use, leaving the table free from any obstruction whatever.

In the drawings:

Figure 1 is a perspective view of one of the clamp or vise members.

Figure 2 is a similar view of the other member, and

Figure 3 is a top plan view showing the device in use.

Figure 4 is a perspective view of a swivel block attachment for the clamp member.

To construct the vise I provide an eccentric cam arm 1, provided with a heel 2 and toe 3. To this arm is secured at right angles to the plane of the arm, a pin 3^a.

The other member of the vise is a bar 4, with a straight edge 5 and provided with two pins 6 and 7, depending at right angles from the bar.

To secure the vise members in holding position, two holes are bored in the table top 8 at the proper distance apart to receive the pins 6 and 7, and a series of holes 9 are also bored in the table with their centers in a line at right angles to the holes for the straight edge and the proper distance apart. In one of these holes the pin on the curved arm is mounted, the hole selected being the one which will permit the heel

2 and some portion of the toe 3 of the curved member to bear on the piece of wood to be held when it is laid against the straight edge 5 of the other member 4.

The operator slides the wood to be planed, for example, between the heel 2, of the curved arm and abutting the straight member 4, until the end of the wood strip bears against the toe 3 and this action against the toe portion swings the heel 2 inwardly so as to clamp the wood strip securely in place. After planing or other treatment a slight tap on the inner end of the wood will release the clamp and permit the withdrawal of the same. In fixing the position of the curved members, the particular hole 9 selected in which to seat it, will be determined by the width of the strip, which is to be planed. When the vise is not in use the two members are lifted out and removed from the table and the top surface of the table will be entirely free and unobstructed.

In some instances, when cabinet work is to be held or for any reason the character of the wood is such that the heel of the clamp member might indent or mar the side edge, I provide a pivot hole 13 in the heel and secure therein by pivot screw 14, a swivel block 15 with a straight edge 16. The vise operates as above described, but the swivel block prevents marring of the side edge of the wood, as will be readily understood.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:—

A bench vise comprising in combination, a cam shaped lever having a fulcrum stud adapted to seat in holes in the top of a work bench, a straight sided member having posts extending from the base thereof off a center line extending longitudinally of the said member, said posts adapted to seat in holes in the table top, with either longitudinal edge of the member toward the lever, said lever and straight sided member adapted to act as a vise, a long arm of the lever being adapted to be so moved as to cause the cam portion of the lever to move toward the straight sided member.

JACK PUTERBAUGH.