E. A. SCHADE.

BENCH BRACKET AND VISE.

APPLICATION FILED NOV. 2, 1914.

1,131,869.

Patented Mar. 16, 1915.

2 SHEETS—SHEET 1.

Fig 1

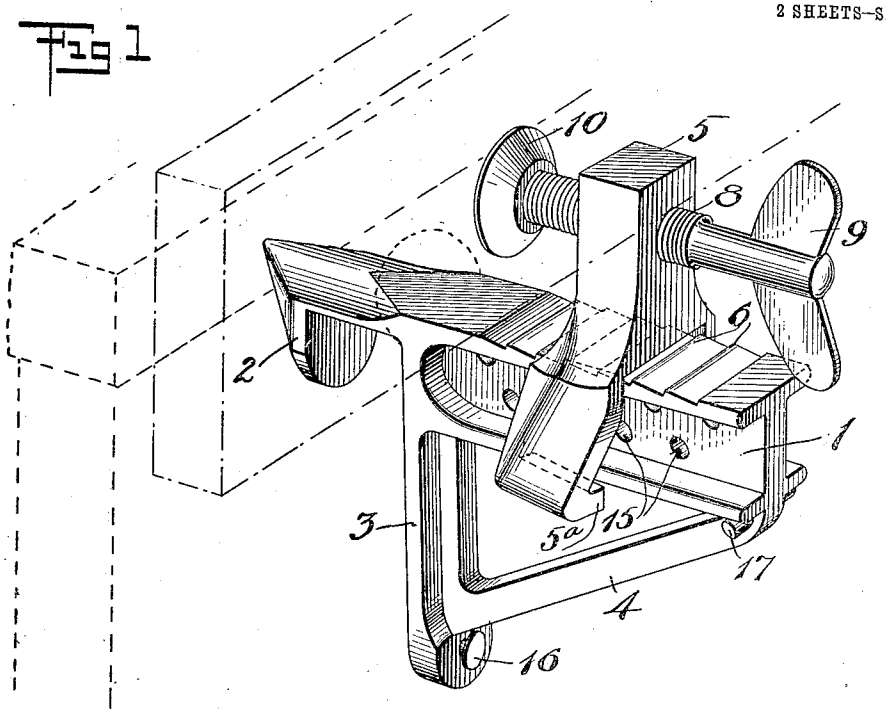
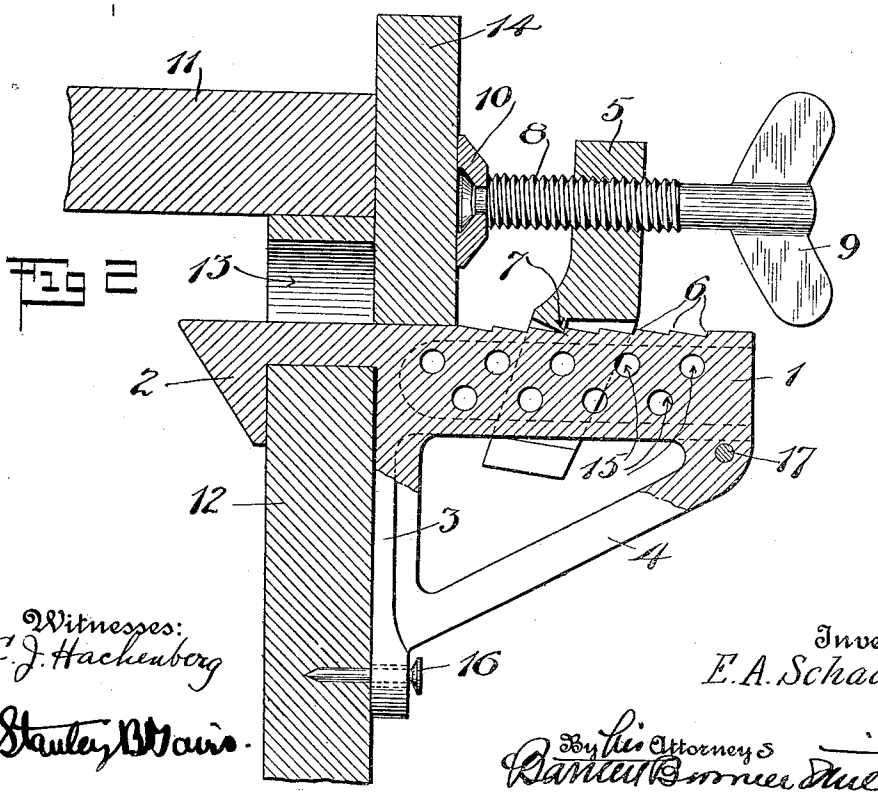


Fig 2



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Fig 3

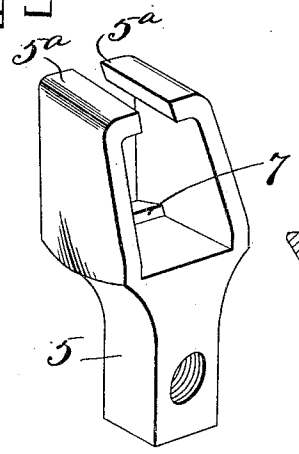


Fig 5

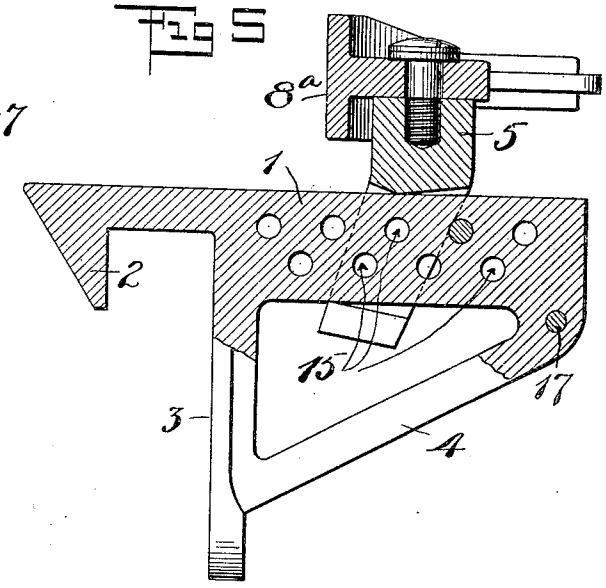
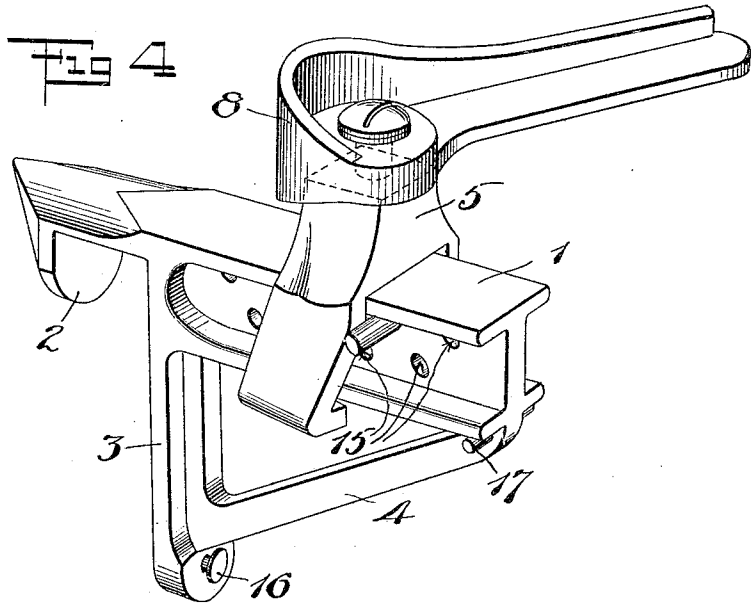


Fig 4



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UNITED STATES PATENT OFFICE.

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BENCH BRACKET AND VISE.

1,131,869. Specification of Letters Patent. Patented Mar. 16, 1915.

Application filed November 2, 1914. Serial No. 869,768.

To all whom it may concern:

Be it known that I, EDMUND A. SCHADE, a citizen of the United States, residing at the city of New Britain, county of Hartford, State of Connecticut, have invented certain new and useful Improvements in Bench Brackets and Vises, of which the following is a full, clear, and exact description.

My invention relates to an improved bench bracket and vise, the object being to provide a very simple and effective form of such a device, which can be easily and quickly applied to or removed from the ordinary work-bench, for the purpose of steadying or holding a piece of wood thereon in proper position to be worked upon. As is well known, in an ordinary carpenter's bench there is provided a board in the form of an apron, along the front, in which a number of peg-holes are provided. Ordinarily when a long board is to be planed, one end of the board is held in the vise and the other end of the board is supported by an ordinary wooden peg, placed in one of these holes in the apron. The peg support is not satisfactory because the board is not held thereby against lateral or twisting movement.

My invention contemplates a very simple and quickly adjustable device, to be substituted in place of the peg, and when in use serves not only to support the board but to hold it against side-sway or twisting.

In the drawings,—Figure 1 is a perspective view of my invention as it would appear in use. Fig. 2 is a cross-section of a part of a work-bench showing my device partly in section. Fig. 3 is a perspective view of a detail. Fig. 4 is a perspective view of a modification. Fig. 5 is a sectional view thereof.

1 represents the top bar or main body of the clamp having at its inner end a hook-like projection 2.

3 is a depending angle-piece or brace on the lower side of the main body 1 and spaced apart from the hook 2.

4 is a bracket-arm which preferably connects the lower part of the part 3 with the outer end of the bar 1. Slidably mounted on the bar 1 is a block 5, the lower part of which is formed with jaws 5^a—5^a, which extend under the bar 1, the block 5 being supported on top of the bar 1. In the preferred construction the top surface of the bar 1 is provided with ratchet teeth 6, while the block 5 has on its underside a coöperating ratchet tooth 7, so placed that the bulk of the weight of the block 5 is outside—that is to say, the outer end of the bar 1—relatively to the tooth 7, so that the said block will, by gravity, assume normally the position indicated in the drawings. The block 5 carries a clamping-screw 8, preferably provided at its outer end with a wing-nut 9 and at its inner end with a loosely mounted presser-plate or washer 10.

11 represents the top of an ordinary work-bench, while 12 represents the depending apron at the front thereof.

13 represents the ordinary peg-hole found in such a bench apron. The hook 2 is so spaced relatively to the part 3 of the frame that the hook may be pushed through the peg opening 13 and engage with the apron as shown in Fig. 2. A piece of wood 14 may then be placed along the front of the bench and supported upon the bar 1 and held thereagainst by simply screwing up on the set-screw 8, as shown in Fig. 2. It is obvious that this detachable appliance may be quickly and easily put in place in any one of the peg-holes in the apron 12 (it being customary to find a number of peg-holes at different elevations in such aprons), whereupon the board 14 may receive proper support and be held against lateral and twisting movement. Obviously the device may perform the function of a vise where light work only is to be performed; but its usual function is that of a clamping member, to be used in conjunction with the ordinary bench-vise (not shown). As will be seen, the bar 1 is preferably provided with a plurality of holes 15—15, passing transversely therethrough, through which a small rod or nail can be passed to hold the block 5 in place of the ratchet teeth 6—6. So also the lower part of the depending member 3 may have a small passage through which the nail 16 can be passed to steady the lower end of the clamp, should it be desirable to provide such means.

17 is a stop-pin provided underneath the bar 1 to prevent the block 5 from becoming accidentally disengaged from the bar 1.

In the modification shown in Figs. 4 and 5, I have shown a cam-actuated clamping-

member 8ª mounted to rotate on top of the block 5 in place of the screw-clamp shown in Figs. 1 and 2.

What I claim is:

1. In a device of the character described, a bar, a hook at the forward end thereof, a depending brace at the lower side of said bar and spaced from said hook, a block adjustably mounted to slide to and fro on said bar, with means for holding said block at fixed position thereon, and a clamping member carried by said block above said bar.

2. In a device of the character described, a bar, a hook at the forward end thereof, a depending brace at the lower side of said bar and spaced from said hook, a block adjustably mounted to slide to and fro on said bar, with means for holding said block at fixed position thereon, a clamping member carried by said block above said bar, said clamping member being rotatably mounted on the block.

3. In a device of the character described, a bar, a hook at the forward end thereof, a depending brace at the lower side of said bar spaced from said hook, and clamping means mounted on said bar.

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Witnesses:
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."