

No. 823,353.

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R. F. McNAMARA.

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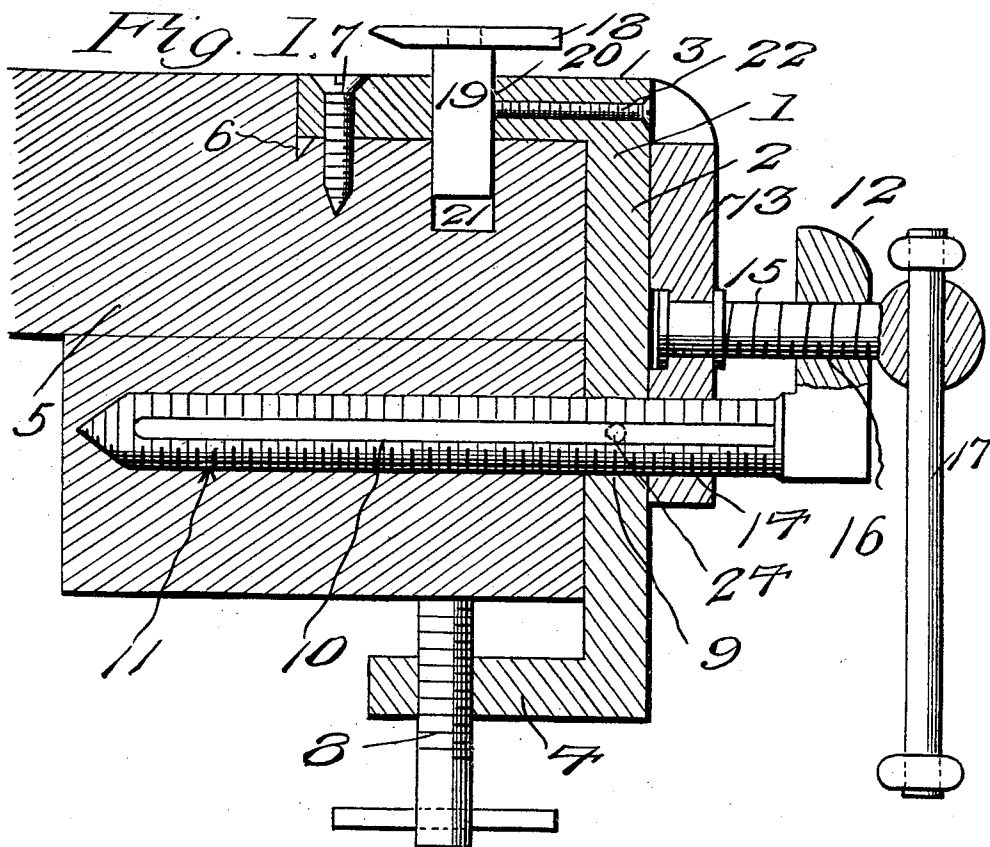
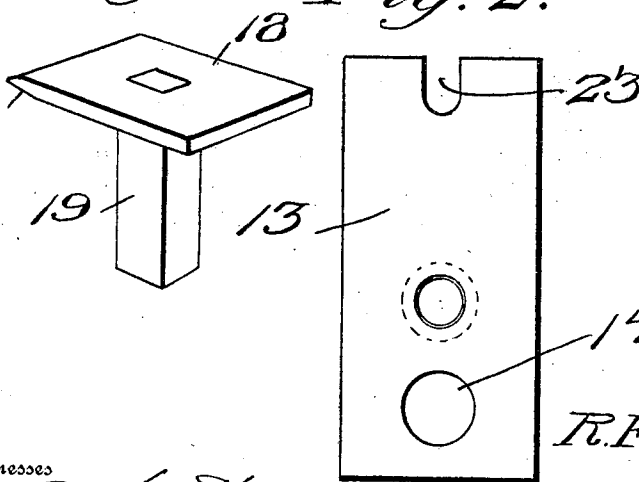


Fig. 3. Fig. 2.



Witnesses

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VICE.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ROBERT F. McNAMARA, a citizen of the United States of America, residing at Rochester, in the county of Monroe and State of New York, have invented new and useful Improvements in Vises, of which the following is a specification.

This invention relates to improvements in vises and bench-dogs for the use of carpenters, cabinet-makers, and other artisans; and its object is to provide a vise which is readily applicable and removable, so as to be transferred from one support to another for different kinds of work, and in which the movable jaw of the vise is adjustable to extend vertically or horizontally to suit the character of work to be done.

In the accompanying drawings, Figure 1 is a central vertical section through the device, showing it applied for use to a work-bench. Fig. 2 is a front elevation of the movable jaw, and Fig. 3 is a detail view of the dog.

Referring now more particularly to the drawings, the numeral 1 designates a clamp comprising a vertical body portion 2, forming the stationary jaw of the vise and provided at its upper and lower ends with right-angulantly-projecting arms 3 and 4. The body portion 2 bears against the edge of a work bench or table 5, the upper surface of which is mortised or recessed to receive the arm 3, whose upper surface lies flush with the upper surface of the table. The arm 3 is provided at its free end with one or more spurs 6 to enter the table and is detachably secured in position by one or more fastening-screws 7, while the arm 4 carries a clamping-screw 8 to bear against the lower surface of the table, thus detachably securing the device thereto.

The body portion 2 is provided with a threaded opening 9 for the reception of a threaded supporting-rod 10, which extends into a socket 11 in the table and is provided with an upturned outer end 12, arranged in parallel relation to the stationary jaw 2. The movable jaw 13 is disposed between the stationary jaw 2 and member 12 and is formed at its lower end with an opening 14 for the passage of the rod 10, whereby said jaw is adapted to slide and swing upon said rod. Swiveled at one end in the jaw 13 is an adjusting-screw 15, having a threaded outer end working in a threaded opening 16 in the upturned end 12 of the rod and provided with an ordinary form of slide-handle 17, whereby

it may be operated to move the jaw 13 toward and from the jaw 2. The rod 10 is axially adjustable in the opening 9 to permit the jaw 13 to be horizontally or vertically disposed to clamp wide or narrow boards to be planed against the jaw 2 and to adapt various articles to be held in different positions, according to the character of work to be performed.

The arm 3 carries a bench-dog 18, which is provided with an angular shank 19, vertically adjustable in a correspondingly-shaped opening 20 in said arm and adapted to enter a socket 21 in the table. By this means the dog is held from rotary movement and may be adjusted to a desired height within the range of movement of the shank 19. A set-screw 22 extends through the upper portion of the face of the jaw 2 and the arm 3 and intersects the opening 20, so as to bear upon and hold the shank 19 rigidly in adjusted position. The upper end of the movable jaw 13 comes flush with the upper surface of the arm 3 when vertically arranged and is formed in its upper edge with a recess 23 to permit of the ready insertion of a tool to adjust the screw 22. The supporting-rod 10 may be held fixed in either of its adjusted positions by means of a clamping-screw 24, extending transversely through one of the sides of the stationary jaw 2 into the opening 9.

It will of course be understood that the device may be made of any suitable material and of any desired size, and it will be apparent that the mode of securing the clamp in place permits it to be readily detached from a work-bench or other support and applied either vertically or horizontally to other supports for clamping and planing boards, hanging doors and planing the edges thereof, and other similar work and that the adjustability of the movable jaw 15 permits such work to be conveniently carried out. By mounting the dog upon the clamp so as to form a part of the device the device and dog are conveniently arranged for coöperative use and may be simultaneously transferred from one support to another.

Having thus described the invention, what is claimed as new is—

A device of the character described comprising a supporting-bracket forming a fixed jaw, said bracket having upper and lower arms provided with means for fastening the same to a bench or other support, a screw-

threaded supporting-rod carried by the bracket and having at its outer end an angularly-disposed extension, means upon the bracket for engaging and holding the rod
5 from rotary movement, a movable jaw adjustable on the rod between the fixed jaw and the extension, said jaw being adjustable to a vertical or horizontal position by a rotary movement of the rod, and means sup-

ported by the said angularly-arranged extension for adjusting the movable jaw.

In testimony whereof I affix my signature in presence of two witnesses.

ROBERT F. McNAMARA.

Witnesses:

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