



No. 6125/27.

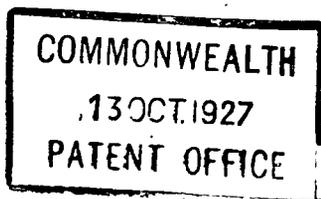
APPLICATION DATED

24th February, 1927.

Applicant (Actual Inventor) DANIEL LATHAM.
Application and Provisional Specification .. Lodged 24th February, 1927.
Application and Provisional Specification .. Accepted 24th March, 1927.
Complete Specification Lodged 16th July, 1927.
Complete Specification Accepted 8th Sept., 1927 Acceptance Advertised (Sec. 50) 20 Sept., 1927.

Class 72.1.

Drawing attached.



COMPLETE SPECIFICATION.

"An improved vyce."

I, DANIEL LATHAM, of 157 Queen Street, Melbourne, in the State of Victoria, Engineer, hereby declare this invention, and the manner in which it is to be performed, to be fully described and ascertained in and by the following statement:—

This invention relates to bench vices and is particularly applicable to parallel bench vices such as used by engineers and the like, and has been devised to provide a vice of greater utility than those at present in use.

The types of vices at present employed are defective for the reason that the gripping jaws are disposed in the same plane as the sliding portion thereof, that is; at right angles to the bench to which the vice is fitted, with the result that the work when held in the vice jaws and disposed perpendicularly, is always limited to the measured distance from the top face of the jaws to the slider beneath them.

This invention has been devised to overcome this defect in a cheap and simple manner, and to provide a vice wherein any reasonable length of material being worked can be held at any portion of its length perpendicularly by the vyce.

The essential feature embodied in the invention consists in arranging the gripping jaws in an off-set manner to the right or left side of the central line drawn through the adjusting screw of the vyce, so that the jaws are set at a tangent to allow the work held therein to be adjusted vertically as well as at an angle in the vyce jaws without obstruction or limit of adjustments.

In order that the invention is more readily understood it will now be described with reference to the accompanying drawings in which:—

Figure 1, is a view in plan and

Figure 2 is a view in end elevation of the improved vyce as it would appear fitted to a bench in working position.

According to this invention the slider 1, is fitted with the head 2, and gripping jaw 3. The screw which moves the slider backwards and forwards in the fixed body 6, has the head 4, to which is fitted the handle 5.

The body 6, of the vyce is fixed to the bench by bolts, screws or other fastenings, and preferably through the holding down flanges 9.

The fixed body 6, is fitted with a head 7, having a gripping jaw 8, while 10 is an

extension cantilever bracket formed on the fixed body 6, to support the slider 1, externally of the fixed body 6.

The heads 2, and 7, with their respective jaws 3, and 8, may thus be offset at an angle on either side of the sliding centre of the slider 1, and the fixed body 6, of the vyce, and for the purposes of illustration the drawings show the offset to the right hand side. This allows of the work to be positioned horizontally or at an angle or perpendicularly for any portion of its length by the whole surface of the jaws 3, and 8, a clear passage being allowed for the work to the ground or floor level when the work is positioned in the vyce.

In the drawing, for purpose of illustration only, the invention is applied to the common type of screw parallel jaw bench type, but I desire it to be understood that the invention may be applied to the quick release or other types of vyce, and improvements and modifications may be embodied without departing from the spirit and scope of the invention.

Having now fully described and ascertained my said invention and the manner in which it is to be performed, I declare that what I claim is:—

1. A vyce characterized in that the gripping jaws are offset to the right or left side of the centre line drawn through the centre

of the slider and fixed body thereof for the purposes specified.

2. A vyce consisting of a slider working in a fixed body, the slider and fixed body being each formed with a head having gripping jaws facing each other, each head being set in parallel line at an angle or offset from the centre of the slider and fixed body of the vyce for the purposes specified.

3. A vyce characterized in that the jaws are set at an angle so that the work may be vertically held without obstruction through the jaws towards or to the ground.

4. A vyce characterized in that the vyce heads carrying the gripping jaws are offset to either side of the vertical centre of the body of the fixed portion of the vyce.

5. A vyce consisting of a slider as 1, sliding in a fixed body at 6, by means of a screw, a bracket as 10, formed on the fixed body to support the slider, heads as 2, and 7, of the slider and fixed body respectively offset from the centre line of the screw and slider, the heads being fitted with gripping jaws as 3, and 8, substantially as described and as illustrated.

Dated this eighteenth day of August, A.D. 1927.

DANIEL LATHAM,

Applicant. 30

Witness—J. Lindsay Dougharty.

DANIEL LATHAM.

Vycc.

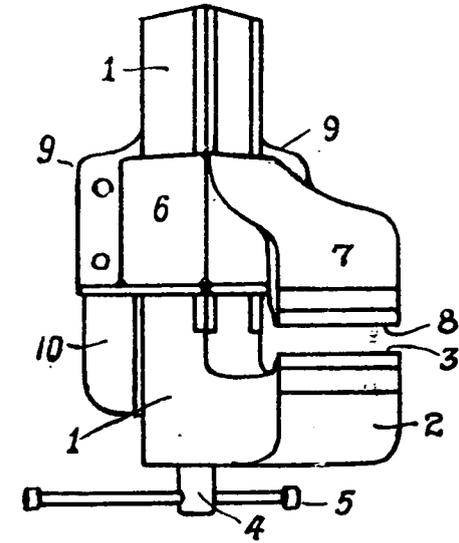


Fig. 1.

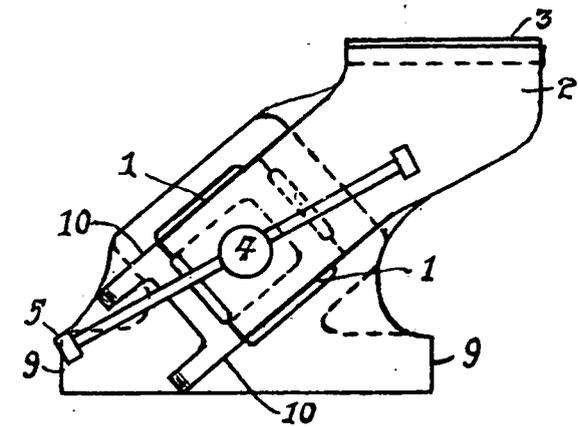


Fig. 2.