## J. MIGNOLA, Jr. VISE FOR SAWS. APPLICATION FILED OUT. 27, 1909

APPLICATION FILED OUT. 27, 1909. Patented Mar. 15, 1910. 952,013. FIG. 1 . INVENTOR WITNESSES:

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## UNITED STATES PATENT OFFICE.

JOHN MIGNOLA, JR., OF ALAMEDA, CALIFORNIA

VISE FOR SAWS.

952,013.

Specification of Letters Patent. Patented Mar. 15, 1910.

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To all whom it may concern:

Be it known that I, John Mignola, Jr., a citizen of the United States, residing at Alameda, in the county of Alameda and 5 State of California, have invented new and useful Improvements in Vises for Saws, of which the following is a specification.

The object of the present invention is to previde an improved vise for holding saws. 10 Prior vises used for this purpose, so far as my knowledge extends, have been defective! in that they do not hold the saw with equal firmness and pressure throughout its entire length, rendering it difficult and labori-15 cus to sharpen a saw held in such a vise. Hever beneath the rear end of the latter. The present vise is so constructed as to avoid! Although this device has been on the marthe above defect.

20 tudinal section thereof in the open position; with that construction, if there is the slight-Fig. 3 is a similar view in the closed posi-

Referring to the drawing. I indicates the 25 holes 2 for securing it to a work bench or and that substantially on the central longitable. Said base is, at one end, greatly tudinal line of the latter lever, if, owing widened, as shown at 2 2, and tapers in to the looseness of the bearings, the point of thickness almost to a sharp edge, forming a contact or pressure is slightly to one side of 30 ing upward from the base. Rising from pen owing to the great distance of this point said stationary jaw are two arms 3 between | then the pressure by the operating lever, 35 able jaw 6, said movable jaw being similar lever, tends to tilt the same to one side, so co is clamped.

jaw toward that of the stationary jaw, there | by providing that the upward pressure upon is pivoted on the rear end of the jaw lever | the rear end of the movable jaw lever is 45 member 10 of which forms a finger piece, the lever, so that there can never be any tendsides 11 of which yoke extend on opposite lency whatever of said lever to twist, or ends to form eccentrics or cams around the the vise than at the other. pivotal connection 8 of the yoke lever with | I claim:-50 said jaw-lever. When the yoke is moved from 1. A vi-e for saws comprising a base its forward position rearwardly through widened at the end to form a stationary jaw, nearly two right angles, the eccentric ends arms extending upwardly, and forwardly of the yoke, riding upon a concaved seat 12 from said base, a movable jaw, a lever thereformed on the base, raise the rear end of the for pivoted between the forward end of said 110 lever and correspondingly depress the for- larms, and a voke-shaped cam lever, the sides ward end thereof. In order to raise the lip i of which extend on opposite sides of the rear

of the movable jaw from that of the stationary jaw when the yoke is returned to its forward position, there is provided a coiled spring 13 around a rod 14 passing through 60 the rear end of the lever, 5, said spring 13 bearing upon the top of the lever 5.

I am aware that there has long been used a vise for saws similar to that above described that in every respect except for the 65 addition of the spring, and for the fact that. instead of using a voke pivotally connected at the rear end of the lever, there is used therewith an operating lever having a single point of engagement with the movable jaw 70 ket for many years. I have found it, unless In the accompanying drawing, Figure 1 is 'quite new, to be practically werthless for a plan view of the saw; Fig. 2 is a longi-; the purpose desired. The reason is that, 75 est looseness of the bearings for the pivet of the movable jaw lever, then since the operating lever presses the rear end of the movbase of the vise, which is formed with screw | tible jaw lever upward at a single point only, so stationary jaw, said stationary jaw slop-; said central line, which is very liable to hap- 85 said base and extending forwardly toward from the bearings of said worshle jaw lever, which is pivoted, as shown at 4, a lever 5. | being at one side of the central vertical plane on the front end of which is formed a mov-! between the bearings of the movable jaw 90 in general form to the stationa viaw, but that the pressure is considerably greater sloping downward from said lever. Be- between the lips of the jaws at one end of tween the comparatively thin and long lips; the vise than at the other. In fact, after a of said stationary and movable jaws the saw! little use, it is rarely the case that the saw is 95 held firmly except at one end of the vise. In order to depress the lip of the movable [My present invention remedies this defect 5, as shown at 3, a yoke lever 9, the central applied equally at both sides of said latter 100 sides of the lever and are enlarged at the to produce a greater pressure at one end of 105

end of the jaw lever, and are pivoted to said | jaw lever, said sides being formed with cam- 15 described.

2. A vise for saws comprising a base widened at the end to form a stationary jaw, arms extending upwardly and forwardly witnesses. 10 from said base, a movable jaw, a lever therefor pivoted between the forward end of said arms, and a yoke-shaped cam lever, the sides of which extend on opposite sides of the rear end of the jaw lever, and are pivoted to said

jaw lever, said sides being formed with cam- shaped ends arranged to bear upon said base shaped ends arranged to bear upon said base to raise said jaw lever by the pivotal move-to raise said jaw lever by the pivoted move-ment of said yoke lever, and a spring for ment of said yoke lever, substantially as normally depressing the rear end of said jaw lever, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing

JOHN MIGNOLA, JR.

Witnesses:

FRANCES M. WRIGHT, D. B. RICHARDS.