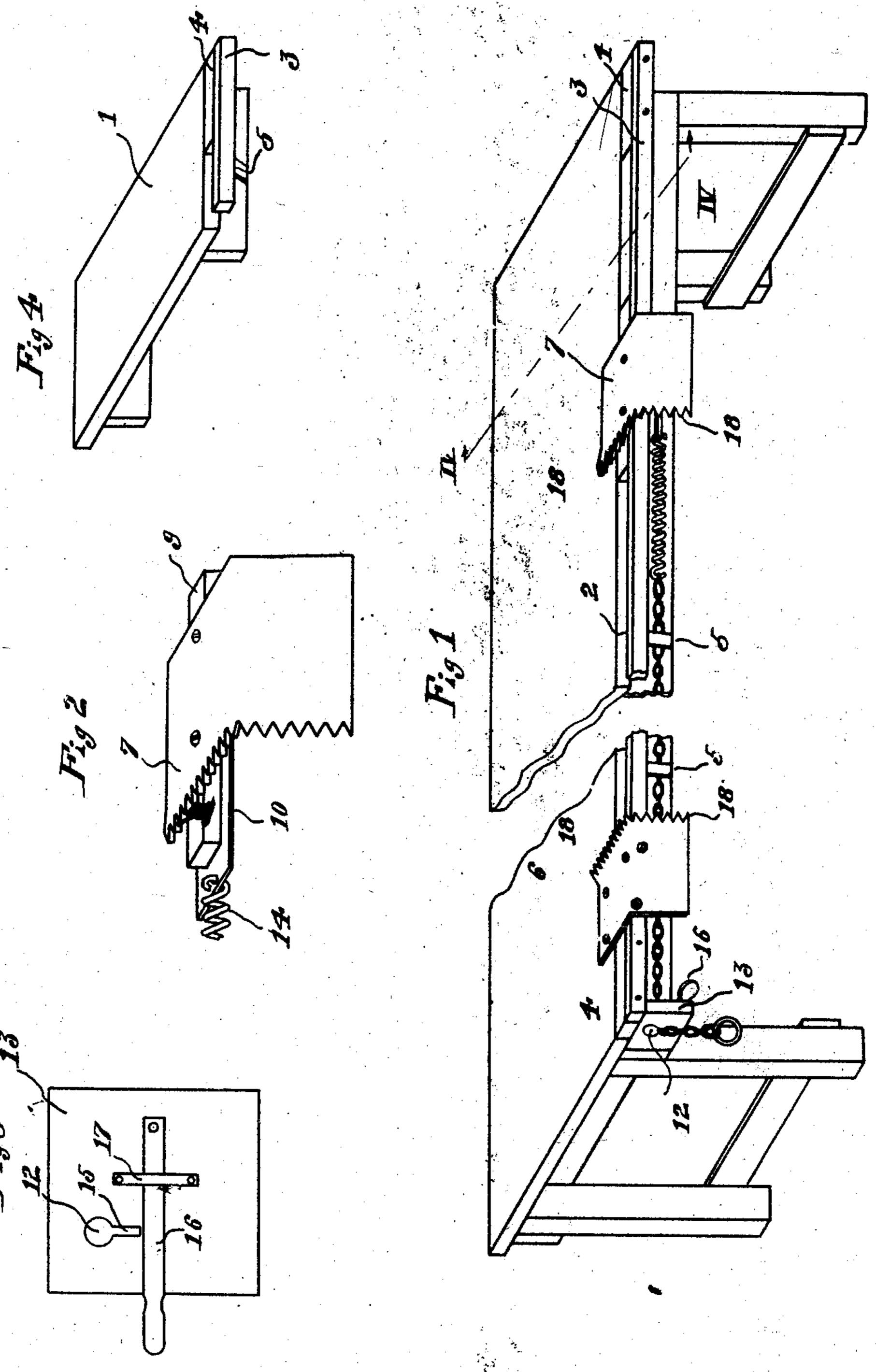
ADJUSTABLE VISE FOR WORK BENCHES

Filed April 1, 1929



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UNITED STATES PATENT OFFICE

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ADJUSTABLE VISE FOR WORKBENCHES

Application filed April 1, 1929. Serial No. 351,778.

5 pendable in operation and capable of being and passed through a hole 12 cut in end- 55 attached to both work benches in the process board 13 thereof.

or ing detailed description is read in conjunc-adjustment for each piece, a helical spring 60 15 view of a tail block to which the adjustable chain 11, sufficiently to permit a piece of 65 bench as viewed in Fig. 1; and Fig. 4 a sec- be inserted in it. tional view of the bench top in perspective 20 taken along the line IV—IV of Fig. 1.

25 is cut, or otherwise provided, a longitudinal of the links of the chain when it is arranged 75 of the bench in spaced relation therewith further movement of the chain. The elastica strip of material 3. To space strip 3 far ity of spring 14 makes it possible to drop one 80 ranged between it and the bench at its op-tion. port to strip 3 so that it will not be easily lustrated more particularly in Fig. 3. broken, reinforcing straps 5 are attached at Both fixed clamp 6 and movable clamp 7

strip 3 and the adjacent edge of the bench. planes of the clamps.

This invention relates to vises for use on into engagement with a piece of work posicarpenter's or wood-worker's benches, and tioned between it and fixed clamp 6, a flexible. has for its object the provision of an adjust-member such as a chain 11 is attached to strap able vise which is simple in construction, de- 10, carried along the underside of the bench,

of construction and those already in use.

In order to make it possible to insert pieces Other objects and a better understanding of work of the same size in and remove them of the invention will be had when the follow- from the vise without requiring separate tion with the accompanying drawings, in 14 extends between the end of chain 11 and which Fig. 1 is a perspective view of a work strap 10. Through the elasticity of this bench to which the preferred embodiment of spring the movable clamp can be readily my invention is attached; Fig. 2 a perspective moved outwardly, without movement of clamp is attached; Fig 3 a face view of a work to be extracted from the vise and andetail of construction at the left end of the other of substantially the same length to

For conveniently locking the movable clamp in a selected position to hold a piece 70 Having reference to the drawings, an ordi- of work in the vise, a slot or keyway 15 (Fig. nary work-bench 1 is shown by way of ex- 3), adapted to engage the links of chain 11, ample to illustrate how the invention may be is cut downwardly from hole 12. This slot practiced. Along an edge of the bench there is made only sufficiently wide to receive one slot 2. Where the bench will not permit the in a vertical position. Hence when one of cutting of such a slot in its top, one may be the links is so positioned in the slot its walls conveniently formed by attaching to the edge engage the link on each side and prevent enough from the edge of the bench to provide of the chain links in slot 15 after movable a slot 2 of the desired width blocks 4 are ar- clamp 7 has been adjusted to a desired posi-

posite ends, and to hold both the strip and To provide for lifting chain 11 out of slot 35 blocks in place, they may be nailed or other- 15 in case it sticks, a lever 16 is pivotally at- 85 wise attached to the bench in any suitable tached to board 13 immediately below the manner. To give rigidity and lateral sup-slot, being held in place by a strap 17 as il-

40 spaced intervals between the strip and the are made in the form of angles, and are so 90 lower structure of the bench.

attached to the bench that one leg of the angle A fixed clamp 6 is securely attached to the extends parallel and the other perpendicular bench at the end of slot 2, and a movable to the top of the bench, so that a piece of work clamp 7 is mounted on a tail block 9 arranged may be held in the vise at either the top 45 for movement in the slot. This tail block or side of the bench. To insure their gripping 95 is adapted to slide in slot 2, and has a strap the work, the faces of the clamps are proor plate member 10 attached to its bottom, vided with serrations 18 which are slanted -- the edges of the plate projecting beneath slightly outward from the longitudinal

50 For actuating tail block 9 to move clamp 7 It will be readily understood by those 100

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skilled in the art that a vise conforming to my invention may be built in a bench when it is first constructed, or readily attached to one already in use. Furthermore, because of its simple construction, it can be manu-

factured at a very low cost.

According to the provisions of the patent statutes, I have explained the principle and operation of my invention, and have illus-10 trated and described what I now consider to represent its best embodiment. However, I desire to have it understood that, within the scope of the appended claims, the invention may be practiced otherwise than as spe-cifically illustrated and described:

I claim: 1. A work bench having its face provided with a longitudinal slot, a stationary workengaging clamp attached to the bench at one 20 end of said slot, said clamp having one portion of its work-engaging surface arranged parallel to the top of the bench and another portion extending over the edge of the bench at right angles to the top portion, a tail block 25 arranged to slide in the slot, a work-engaging clamp of the same shape as said stationary clamp attached to said block, a cable attached to said block for moving said clamp into engagement with a piece of work disposed beso tween it and said stationary clamp, and means for holding the cable and clamp in ad-

2. A work bench provided in its top with a slot parallel with one of its edges, a sta-35 tionary work-engaging clamp attached to the bench at one end of said slot, a tail block arranged to slide in said slot, a work-engaging clamp mounted on said block, and a chain attached to said block for moving said clamp 40 into work-engaging position, said chain being extended along the length of the bench and passed through a hole in the under structure thereof at the end of the bench, said hole having a slot-like portion adapted to engage a link of the chain to hold the adjustable

justable work-engaging positions.

clamp in a selected position.

3. A work bench provided in its top with a slot parallel with one of its edges, a stationary work-engaging clamp attached to the 50 bench at one end of said slot, a tail block arranged to slide in said slot, a work-engaging clamp mounted on said block, a chain attached to said block for moving said clamp into a work-engaging position, said chain being extended along the length of the bench and passed through a hole in the understructure thereof at the end of the bench. said hole having a slot-like portion adapted to engage a link of the chain to hold the co clamp in a selected position, and a lever pivotally attached to the bench below and adjacent to the slot for lifting the chain out of the slot.

In testimony whereof, I sign my name. HARRY B. DROUTZ.