Dec. 9, 1924. 1,518,709

M. THOMAS

BENCH ATTACHMENT

Filed Sept. 17, 1923 2 Sheets-Sheet 1

FIG. 1.

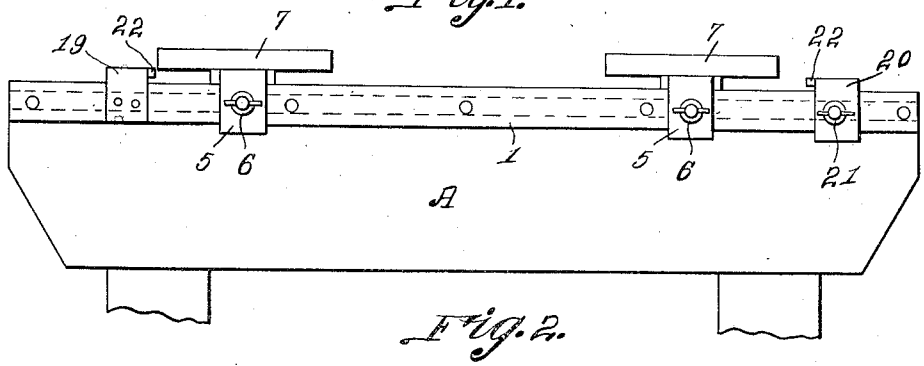


FIG. 2.

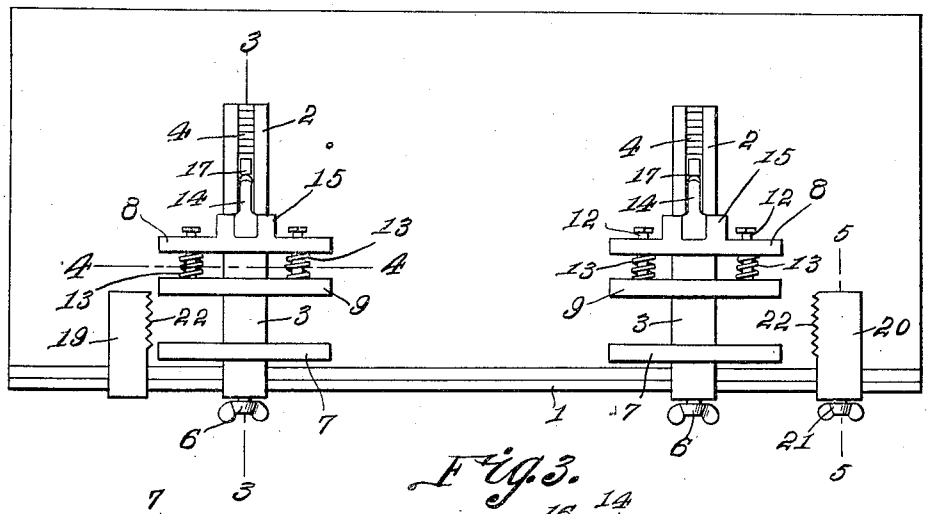
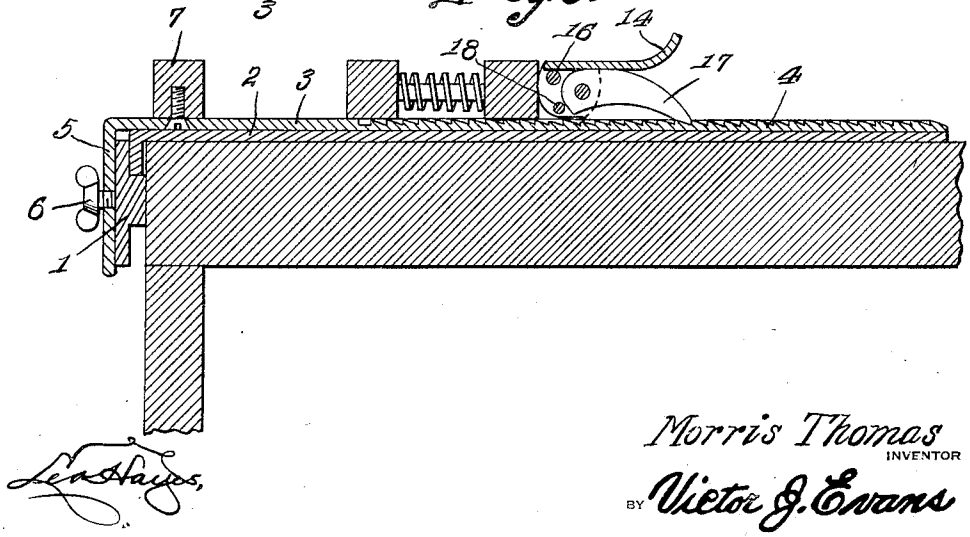


FIG. 3.



Leo Hayes,

WITNESS:

Morris Thomas
INVENTOR

BY Victor J. Evans

ATTORNEY

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Fig. 4.

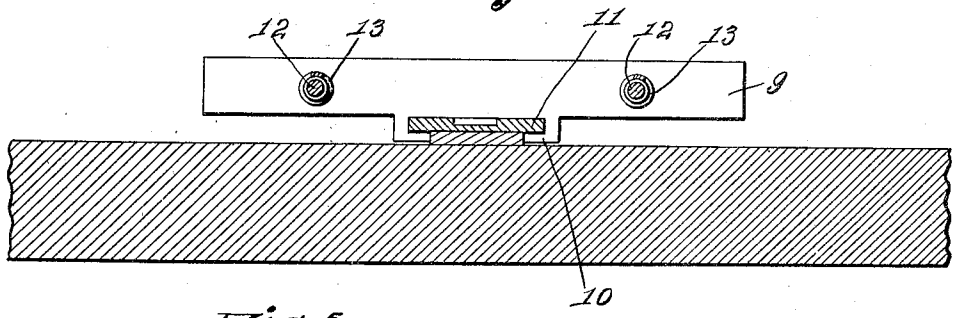


Fig. 5.

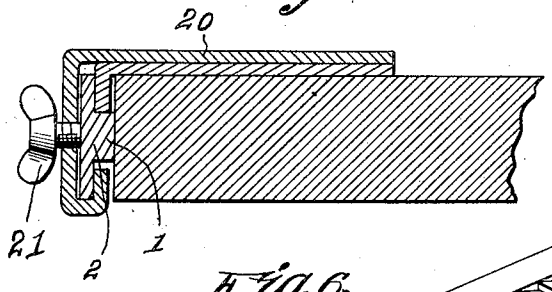
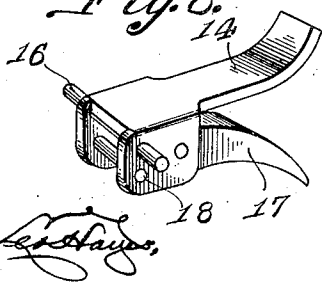


Fig. 6.

Fig. 7.

Fig. 8.



Morris Thomas
INVENTOR

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WITNESS:

Patented Dec. 9, 1924. 1,518,709

UNITED STATES PATENT OFFICE.

MORRIS THOMAS, OF WARREN CENTER, PENNSYLVANIA.

BENCH ATTACHMENT.

Application filed September 17, 1923. Serial No. 663,245.

To all whom it may concern:

Be it known that I, MORRIS THOMAS, a citizen of the United States, residing at Warren Center, in the county of Bradford and State of Pennsylvania, have invented new and useful Improvements in Bench Attachments, of which the following is a specification.

This invention relates to a bench attachment, the general object of the invention being to provide means for holding boards and other work pieces in position upon the bench while being worked upon.

Another object of the invention is to make parts of the holding means removable so that they can be taken off the bench when not in use.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claims.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a side view of the bench showing my invention in use.

Figure 2 is a plan view.

Figure 3 is a section on line 3—3 of Figure 2.

Figure 4 is a section on line 4—4 of Figure 2.

Figure 5 is a section on line 5—5 of Figure 2.

Figure 6 is a perspective view with parts broken away of one of the clamp carrying strips.

Figure 7 is a fragmentary view showing the pawl of the clamp in raised position.

Figure 8 is a perspective view of the pawl.

In these views, A indicates the bench, 1 indicates a T-shape strip which is bolted or otherwise fastened to the front edge of the bench top, so as to form a slide for the movable parts of the device. A pair of ratchet member 2 are arranged on the bench, each member being preferably composed of a pair of strips 3, the top one carrying the ratchet teeth 4, with their front ends bent to form a guide 5 for engaging the strip 1 so that the ratchet members are slidably connected with the bench by the strip and they are held in adjusted position by the thumb screw 6. The stationary member 7 of the holding or clamping device, carried by each member, is bolted to the front part of each member and the movable member is slidably connected therewith. This movable member consists of a pair of cross pieces 8 and 9 which are provided with tongues 10 engaging the guideways 11 formed by making the lower strip of less width than the upper strip. The piece 9 carries bolts 12 which pass through holes in the piece 8 and springs 13 on the bolts tend to press the two pieces apart. The handle member 14 is carried by an extension 15 of the cross piece 8 by having a pin 16 engaging holes in the extension so that the handle member is pivotally connected with the cross piece. A pawl 17 is pivoted to the handle piece and a pin 18 acts as a stop for the pawl. This pawl is adapted to engage the rack teeth 4 when the handle member is swung downwardly to hold the movable part of the clamping means in adjusted position. By swinging the handle member upwardly, as shown in Figure 7, the pawl will be released from the teeth so that the movable part of the clamping means can be moved rearwardly.

A stationary block 19 is fastened to the strip 1 adjacent one end of the bench and a movable block 20 is held in adjusted position on the strip 1 by the thumb bolt 21. These blocks are provided with the teeth 22 and they are each formed with bent front ends for forming guideways to receive the strip.

From the foregoing it will be seen that I have provided holding members which are all connected with the strip at the front edge of the bench so that it is not necessary to connect the members with the bench by screws or the like. The parts are adjustable to fit the pieces being worked upon and the parts can be removed when not in use.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What I claim is:—

1. An attachment for a bench comprising a holding member held in spaced relation from the front edge of a bench, a head block

connected with one end of said member, a block slidably connected with the other end of the member, a pair of strips, each having one end clamped to the member, said strips extending over the bench, a stationary jaw carried by each strip and a slidable jaw carried by each strip.

2. An attachment for a bench comprising a holding member held in spaced relation from the front edge of a bench, a head block connected with one end of said member, a block slidably connected with the other end of the member, a pair of strips, each having one end clamped to the member, said strips extending over the bench, a stationary jaw carried by each strip, a slidable jaw carried by each strip, said slidable jaw being formed of two parts with spring means for pressing the parts away from each other, a handle member pivoted to the slidable jaw and a pawl pivotally connected with the handle member and engaging teeth on the strip.

In testimony whereof I affix my signature.

MORRIS THOMAS.