

July 21, 1925.

1,546,583

W. F. HUNTER

TOOL

Filed Sept. 27, 1924

2 Sheets-Sheet 1

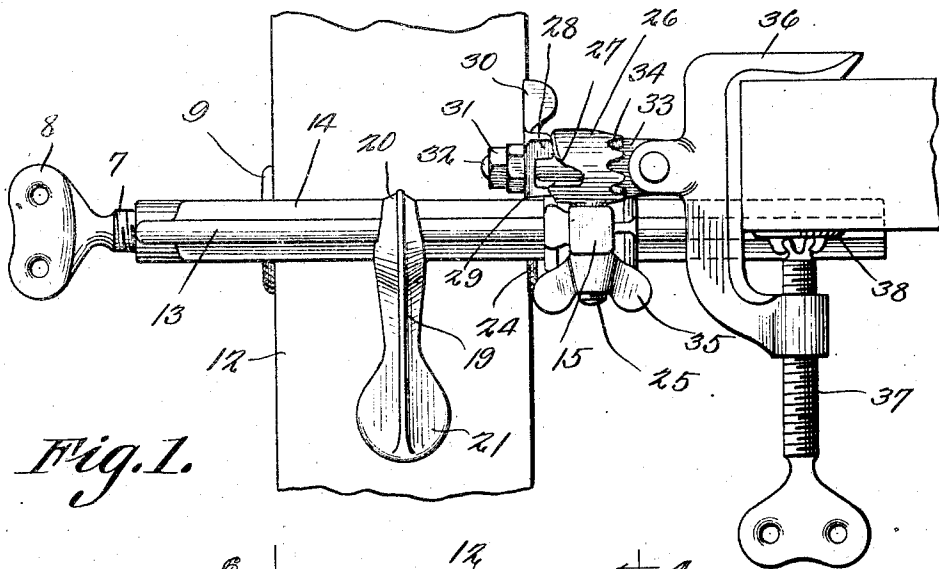


Fig. 1.

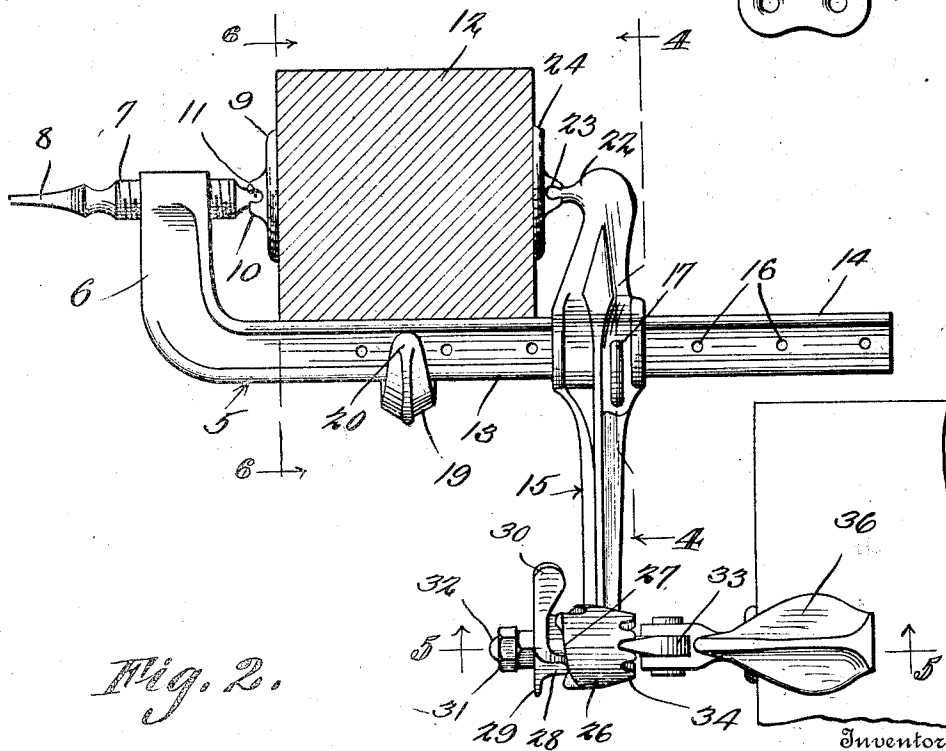


Fig. 2.

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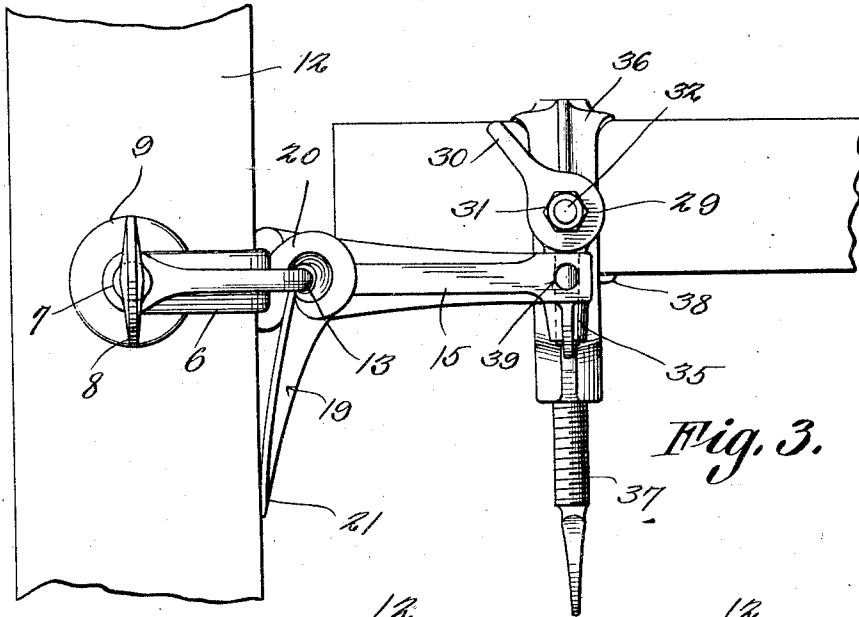


Fig. 3.

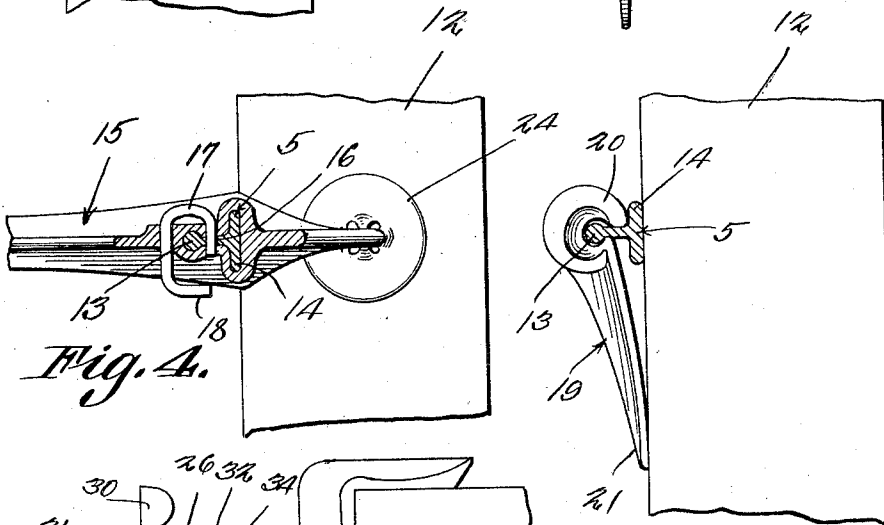


Fig. 4.

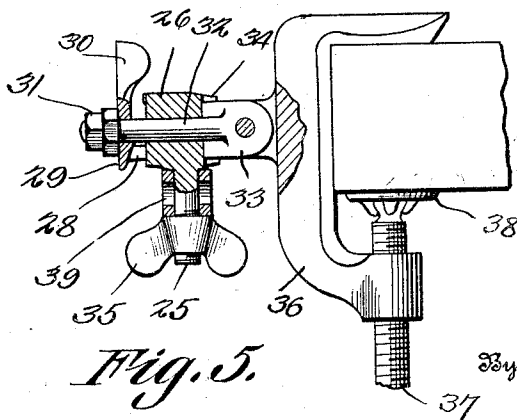


Fig. 5.

Fig. 6.

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UNITED STATES PATENT OFFICE.

WILLIAM F. HUNTER, OF OAKLAND, CALIFORNIA, ASSIGNOR OF ONE-HALF TO LOUIS C. EVERDING, OF ARCATA, CALIFORNIA.

TOOL.

Application filed September 27, 1924. Serial No. 740,310.

To all whom it may concern:

Be it known that I, WILLIAM F. HUNTER, a citizen of the United States, residing at Oakland, in the county of Alameda and State of California, have invented a new and useful Tool, of which the following is a specification.

This invention relates to wood-working clamps and aims to provide novel means whereby a length of wood being planed or otherwise worked, may be held against movement.

An important object of the invention is to provide a device of this character which may be efficiently employed in the capacity of a work bench for supporting a board or the like while the board is being planed or sawed.

A still further object of the invention is to provide a device of this character which is adjustable adapting it for use in connection with boards, doors, window sashes or the like, of various sizes.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

Referring to the drawings:

Figure 1 is an elevational view of a clamping device constructed in accordance with the invention.

Figure 2 is a plan view thereof showing the device as clamped to a supporting post.

Figure 3 is a front elevational view of the device.

Figure 4 is a sectional view taken on line 4—4 of Figure 2.

Figure 5 is a sectional view taken on line 5—5 of Figure 2.

Figure 6 is a sectional view taken on line 6—6 of Figure 2.

Referring to the drawings in detail, the reference character 5 indicates the shank of the main clamping device or support, which is formed with a right angled extremity 6 provided with a threaded opening to receive the screw 7 that is formed with a

winged portion 8 at one end and a head 9 at the other end, the head 9 having a socket member 10 to accommodate the ball 11 of the screw 7 so that the head may be moved into close engagement with a supporting post which in the present showing is indicated at 12 and automatically adjust itself with respect thereto.

The shank 5 is provided with a beaded portion 13 formed along one edge thereof, and flanges 14 extending in opposite directions and arranged adjacent to the opposite edge of the shank, the construction being such as to fit within the opening formed on the arm 15 to permit of adjustment of the arm 15 longitudinally of the shank 13. Openings 16 are arranged in the shank 13 and are disposed in spaced relation with each other to accommodate the locking pin 17 that also passes through the arm 15 to lock the arm 15 to the shank 13 when the arm 15 has been properly adjusted.

This locking pin is provided with an inwardly extended portion 18 which engages one edge of the arm 15 when the pin is moved vertically to lock the pin against removal.

Adjustably mounted on the shank 13 is a bracing finger 19 that is provided with a hook portion 20 and a widened end portion 21, the widened end portion 21 being designed to engage the supporting post to which the device is secured and insure against twisting of the shank, when the device is in use.

One end of the arm 15 extends laterally as at 22 where it is provided with a ball fitted in the socket 23 of the head 24 so that the head 24 will automatically adjust itself when the screw 7 is being operated to clamp an article with the head 24.

Formed in the outer end of the arm 15 is an opening to accommodate the shank 25 of the head 26, which head is formed with cut out portions 27 that accommodate the fingers 28 of the member 29 that is formed with a finger piece 30 to permit the member 29 to be moved into and out of operation.

Nuts 31 are provided on the threaded shank 32 and are adapted to engage the member 29 to hold it into engagement with the head 26. At the opposite end of the shank is a head 33 which has tapered portions adapted to fit within the notches 34

of the head 26 to hold the shank against twisting after it has been properly adjusted and secured against movement.

A winged nut 35 is provided on the shank 25 to hold the shank to the arm 15. Adjustably mounted on the head 33 is a clamp 36 that includes the threaded shank 37 carrying the adjustable head 38 so that the device may be readily clamped to an article to be planed or sawed.

It might be further stated that openings 39 are also provided in the arm 15 so that the shank 25 may be positioned at various angles with respect to the main shank 13.

From the foregoing it will be obvious that should it be desired to support an article in a manner to hold the article against movement while being sawed, it is only necessary to adjust the arm 15 along the shank 5 and secure the arm by means of the pin 17.

The screw 7 is now operated to set up a clamping action with the arm 15. The clamp 36 is now properly secured to the article being sawed or planed to the end that the article will be rigidly supported against movement.

It might be further stated that due to this construction it is possible to support an article at various angles in order to properly cut or plane the same.

I claim:—

In a device of the character described, an elongated shank, an arm adjustably mounted on the shank and extending transversely with respect thereto, said arm carrying a head at one end thereof, a clamping screw carrying a head and operating through the shank at one end thereof, said clamping screw adapted to cooperate with the head to clamp an article therebetween, an adjustable finger on the shank to engage a supporting post on which the shank is mounted and prevent twisting of the shank, and an adjustable clamping member carried by the arm.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

WILLIAM F. HUNTER.

Witnesses:

F. E. BLANCHARD,
E. G. COLE.