

W. S. BURKHART.
CARPENTER'S TOOL.
APPLICATION FILED OCT. 7, 1914.

1,160,103.

Patented Nov. 9, 1915.

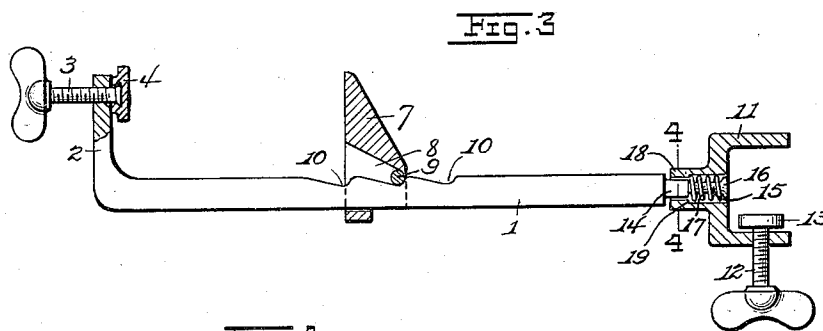
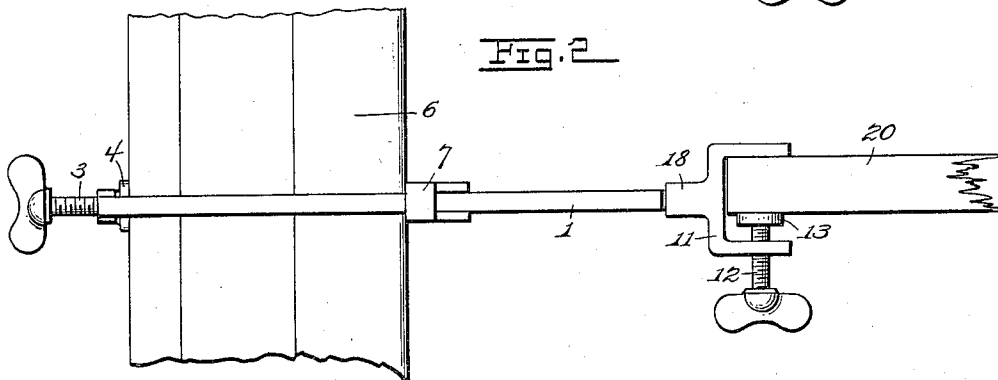
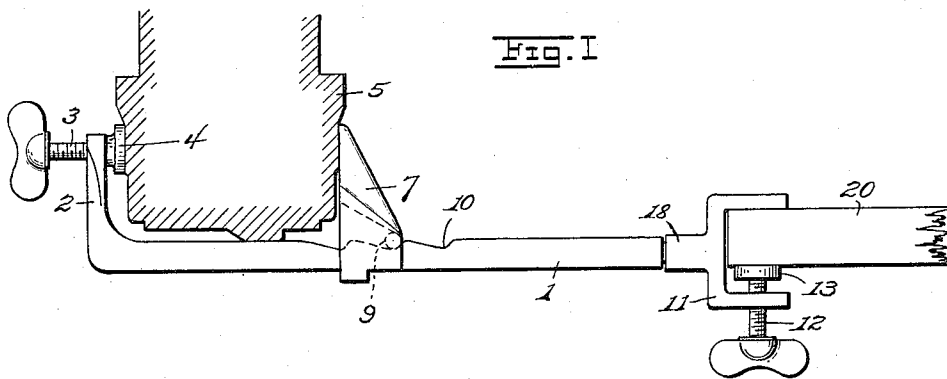
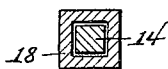


Fig. 4



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UNITED STATES PATENT OFFICE.

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CARPENTER'S TOOL.

1,160,103.

Specification of Letters Patent.

Patented Nov. 9, 1915.

Application filed October 7, 1914. Serial No. 865,433.

To all whom it may concern:

Be it known that I, WILLIAM S. BURKHART, a citizen of the United States of America, and resident of Martins Ferry, county of Belmont, and State of Ohio, have invented certain new and useful Improvements in Carpenters' Tools, of which the following is a specification.

This invention relates broadly to an improvement in carpenters' or joiners' tools, and specifically to a tool for holding doors and windows while the same are being planed off.

The primary object of the invention is to provide a device by means of which a door or window may be rigidly held while its edges are being planed off to cause it to fit within the frame provided therefor.

A further object is to provide a simple, inexpensive and efficient device of the character mentioned which may be conveniently mounted upon a door frame, window frame, or window sill and which is adapted to maintain a door or window in a stationary position during the planing operation.

With these and other objects in view, the invention resides in the features of construction, arrangement of parts and combinations of elements which will hereinafter be fully described, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a side view of the invention applied to a door frame or casing and showing a door supported thereby; Fig. 2 is an outer edge view of the invention applied to a window sill; Fig. 3 is a longitudinal section of the invention; and—Fig. 4 is an enlarged section on the line 4—4, Fig. 3.

Referring to said drawings, in which like designating characters distinguish like parts throughout the several views, 1 indicates a metal bar which has one end turned at substantially a right angle to its body to form an arm 2. Threaded through said arm and lying in parallel alinement with said body is an adjusting screw 3 having a bearing plate or disk 4 swiveled on its end, said disk being adapted to seat against the side of a door casing 5, window frame 6, or like surface, in opposing relation to a jaw 7 which is seated against the opposite side of such frame or casing. While said jaw may be stationarily mounted on the bar 1, it is preferably adjustable, thus adapting the de-

vice for application to casings or frames of widely varying thicknesses. Said jaw is substantially triangular in form and has a tapered opening 8 extending therethrough in which said bar is received. In an outwardly tipped position, said jaw is freely slidable upon the bar; but when disposed substantially at a right angle to said bar, a transversely disposed pin 9 carried thereby seats in one of a series of notches 10 formed in said bar so that the jaw is maintained against rearward movement.

Carried upon the outer end of the bar 1 is a clamp adapted for receiving the edge of a door or window sash therein. Said clamp consists of a U-shaped element 11 having an adjusting screw 12 directed transversely through one of the parallel members thereof, said screw having swiveled thereon a disk 13 adapted to impinge upon a face of a door whose edge is received between said parallel members. While said clamp may be rigidly mounted upon, or formed integral with, the bar 1, it is preferably mounted on said bar in the manner herein illustrated. As shown, the bar 1 has a short reduced portion 14, rectangular in cross section, adjacent to its end, and terminates in a cylindrical stem 15 of less diameter than said reduced portion. The outer end of said stem has an upset end or head 16 between which and the end of said reduced portion is a stem-encircling spiral spring 17. The element 11 has a centrally disposed rearwardly extending hollow stem 18, the bore of which is rectangular adjacent to its rear end, as is clearly shown in Fig. 4, loosely fitting the reduced portion 14 of the bar 1. Joining the rectangular portion of the bore is a circular portion which loosely embraces the spring 17, as shown in Fig. 3, an annular internal shoulder 19 being formed at the juncture of the said rectangular and circular portions of the bore.

The spring 17, the inner end of which rests against the shoulder 19, normally holds the element 11 in a position in which the rectangular portion of the bore thereof receives the rectangular reduced portion 14 therein, in which position rotation of said element is effectually prevented. When, however, it is desired to turn said element from the position illustrated in Fig. 1 to that illustrated in Fig. 2, or vice versa, said element is drawn outward with respect to the bar 1, against the tension of spring 17,

until the rectangular portion of the bore is withdrawn from the rectangular reduced portion 14 of the bar, whereupon it is given a quarter turn in the desired direction.

5 By providing the above described swivel connection between the door-clamp and the bar, the device is rendered applicable both to a door frame, as shown in Fig. 1, and to a window sill, as shown in Fig. 2.

10 In practice, the device is first mounted in a stationary position on a mounted door frame or window frame, after which the end of a door or a window sash, as 20, is inserted within the embrace of the clamp, the said door or sash being disposed on its edge on the floor. In this position said door or sash will be held firmly while its edge is being planed off to cause it to fit the frame or casing provided therefor.

20 What is claimed is—

1. A carpenter's tool of the character described comprising a notched bar having an angularly disposed member at one end, an adjusting screw directed through said member, a jaw carried by said bar in opposing relation to said screw and having a portion for engaging a notch of said bar, said jaw having a tapered opening therein rendering said jaw freely movable on said bar when it occupies a tipped position, a door-holding

clamp at the opposite end of said bar, a swivel connection between said bar and said clamp, and means embodied in said swivel connection whereby said clamp is normally held against rotation.

2. A carpenter's tool of the character described, comprising a bar having an angularly disposed member at one end, an adjusting screw directed through said member, a jaw adjustably mounted on said bar in opposing relation to said screw, said bar having a reduced portion, rectangular in cross section, adjacent to its outer end, a door-holding clamp mounted on said outer end and having swivel connection therewith, said clamp having a portion adapted for embracing said reduced portion whereby turning movement of the clamp is prevented, and means normally maintaining the embracing relation, said means admitting of a partial withdrawal of said clamp with respect to said bar, and said clamp being adapted for rotation when in said partially withdrawn position.

In testimony whereof, I affix my signature in presence of two subscribing witnesses.

WILLIAM S. BURKHART.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."