Nov. 18, 1924.

J. H. WHEELOCK SAW JOINTER

Filed Dec. 26, 1922

49

1,515,763

16

16



Contra prover

. :

Bu

Attorneys

Patented Nov. 18, 1924.

UNITED STATES PATENT OFFICE.

1,515,763

JOHN H. WHEELOCK, OF HAMILTON, WASHINGTON.

SAW JOINTER.

Application filed December 26, 1922. Serial No. 608,971.

To all whom it may concern: Be it known that I, JOHN H. WHEELOCK, manner presently to be described. up into engagement with the file F in a a citizen of the United States, residing at An apron in the form of a plate 6 extends Hamilton, in the county of Skagit and State from the lower edge of the front face of the 5 of Washington, have invented a new and member 3 and is designed to be mounted for 60 useful Saw Jointer, of which the following vertical sliding movement in the pockets 7 and 8 formed in the front wall of the main This invention relates to saw filing tools frame 1. At the base of the apron 6 is a and more particularly to saw jointers. laterally extending shoulder 9 which is de-The object of the invention is to provide signed to rest on the upper edge of the frame 65 a jointer of this character constructed to 1 in the recessed portion 2 thereof, the width true up and joint the cutting teeth of cross of the member 3 above said shoulder being cut saws to an even length, and a gradual such that when the slide is in position resting on the frame, the upper surface thereof Another object is to provide an imple- will be flush with the end portions 10 and 70 ment of this character so constructed that 11 of said frame, see Fig. 1. the file may be adjusted to various curves es- The clamping member 3 has a laterally pecially adapting the jointer for use on extending lug 12 on the inner face of its compound curves such as are frequently front wall just above the connection therewith of the apron 6 against the lower face 75 With the foregoing and other objects in of which is designed to abut an adjusting view which will appear as the description screw 13 which is operable through the front proceeds, the invention resides in the com- wall of the frame 1 at the rear of the pockbination and arrangement of parts and in ets 7 and 8 therein and is designed to adjust the details of construction hereinafter de- the clamp vertically in its seat and to hold 80 scribed and claimed, it being understood it in adjusted position. Extending upwardly through the bottom of the clamping member 3 at the ends thereof are a plurality of screws 14, four being here shown, two at each end and which are 85 In the accompanying drawings:designed to form fulcrums for the file F Figure 1 represents a side elevation of the when it is being adjusted to conform to the curvature of the teeth to be jointed. This is accomplished by means of set screws 15 Fig. 2 is a top plan view thereof. and 16 carried by the ends 10 and 11 of the 90 Fig. 3 is a side elevation taken from the frame 1 and screws 17 carried by clamp 3. These screws bear against the upper faces of the opposed ends of the file F. The end members 10 and 11 have file seats Fig. 5 is a transverse section taken on the 17 which register with the seats in the clamp- 95 ing member 3, the file 'F being inserted Fig 6 is a detail perspective view of the longitudinally in these seats below the upper faces of the member 1 and frame 3. Slots as 18 open longitudinally through the bottom 45 Fig. 7 is a detail sectional view taken on walls of the seats 17 and are arranged to 100 the line 7-7 of Fig. 6. aline with the slots 6 of the clamps 3 to In the embodiment illustrated, a main permit the implement to be mounted over frame 1 is shown in the form of a light the saw teeth to be jointed.

is a specification.

10arc or curve.

15found in cross cut saws.

25that changes in the precise embodiment of the invention herein disclosed may be made within the scope of what is claimed without ³⁰ departing from the spirit of the invention.

jointer embodying this invention with a file shown in operative position therein.

35

55

side opposite on which Figure 1 is taken, Fig. 4 is a transverse section taken on the line 4—4 of Fig. 1.

40 line 5---5 of Fig. 3,

clamping member or slide constituting a part of the jointer, and

skeleton casting preferably constructed of From the above description it will be 50 disposed seat or recess 2 to receive a vertically movable clamp 3. This clamp 3 has a file seat formed under the top or upper face 4 thereof, the lower wall of which is slotted as shown at 5 to permit the saw teeth to pass

aluminum and which has a centrally obvious that the clamping member 3 having 105 been adjusted through the screw 13 to the desired point and the file F placed in the jointer as shown in the drawings, the device is ready for use and is operated as follows: The jointer is placed on a set of cutting teeth 110

nearest the center of the cross cut saw, the inch planer bit file is shown in the device or more teeth which are arranged below the a true and gradual curve in the saw. 5 file be of uneven length, the device with the file already resting on the points of such teeth is reciprocated back and forth a distance of about three-eighths of an inch until all of the teeth in the three or four seats 10 will have the same true curve corresponding

1,515,763

file having been sufficiently tensioned to herein illustrated, and operates as a tester 50 parallel the curve of the teeth. Should one as well as a cutting instrument in perfecting It will be observed that the screws with which this jointer is fitted have the bearings thereof spaced equidistant lengthwise of the 55 file so as to impart to the file as true a curve as is practicable when in operation. I claim:—

A main frame having a centrally disposed

with.

The operator then faces the saw and takes 15 the jointer in his right hand, lifting it just enough to clear the file from the cutting teeth and passes it on until the center of the file is directly over the next set of cutting teeth at the left of the center of the saw. 20 If one or more teeth in this set are uneven pockets in its front wall in which said apron in length, the jointer is reciprocated back is mounted for vertical sliding movement, 25 the center of the jointer until the same is the width of the clamp above said shoulder is accomplished one half of the saw teeth 30 will have been jointed or trued.

to that of the file, thereby providing a true A main frame having a centrally disposed arc for the centering of the saw to begin seat or recess, a vertically movable clamp 60 mounted in said seat, said clamp having a file seat formed under its top or upper face, the lower wall of said file seat being slotted to permit the saw teeth to pass up into engagement with the file, an apron depending 65 from the lower edge of said clamp at the front face thereof, said main frame having and forth in the same manner as that above a laterally extending shoulder at the base of 70 described. Care must be taken to never trim said apron to rest on the upper end of the any other teeth than those directly under main frame in the recess portion thereof. moved to the next set of teeth to be treated. being such that when the slide is in position This operation is repeated until the end of on the main frame the upper surface will be 75 the saw at the left is reached, and when this flush with the end portion of said frame, a laterally extending lug on the inner face of the front wall of said clamp above its con-The saw is then changed end for end in nection with the apron, an adjusting screw the clamp or rack which holds it and the operable through the front wall of the frame 80 procedure above described is repeated work- abutting against said lug to adjust the clamp end of the device from dipping and they used to adapt it to conform to the curvature 85 In testimony that I claim the foregoing as 90 my own, I have hereto affixed my signature in the presence of two witnesses.

ing to the left until the end of the saw is vertically in relation to the saw teeth and 35 reached. Both of the outer ends of the file hold it in adjusted position, and fulcrumed are used as a guide only to prevent either at the end of said clamp for the file to be are not intended to be used for cutting ex- of the teeth to be jointed, and cooperating cept on the last set of teeth at either end screws carried by the ends of the main frame 40 of the saw. This device might be termed a and the clamp to assist in the adjustment of sectional and not a gliding jointer owing to the file. the fact that the teeth of the saw are treated in sections.

Should the saw being jointed have a com-45 pound curve, it will be necessary to change the tension of the file probably several times during the jointing operation to adapt it to conform to such changing curves. A ten

JOHN H. WHEELOCK,

Witnesses:

E. BEAUCHAMP, M. H. HENRY.

• .

. · · · · ·

· ·

. · ·

.

.