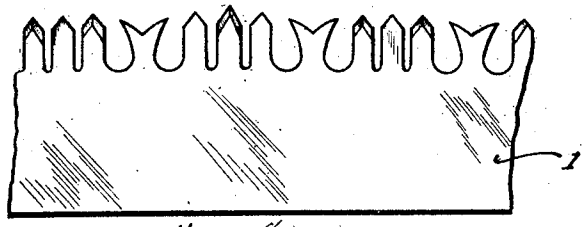
June 1, 1926. 1,586,661

A. F. DOUGAN

ROUGH AND SLICK JOINTER FOR FILING SAWS

Filed Feb. 16, 1925

Fig. 6



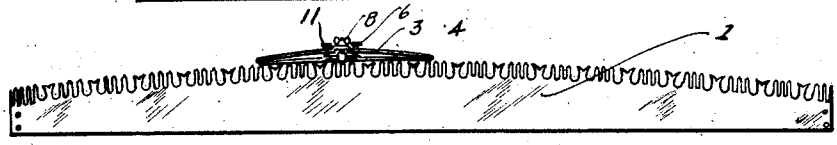


Fig. 1

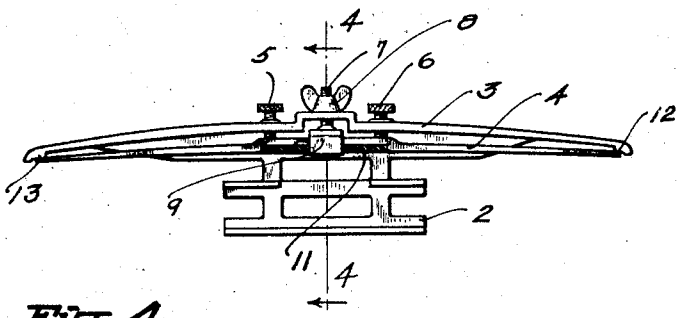


Fig. 2

Fig 4

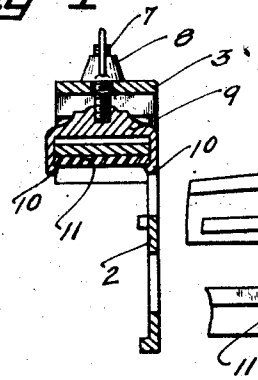
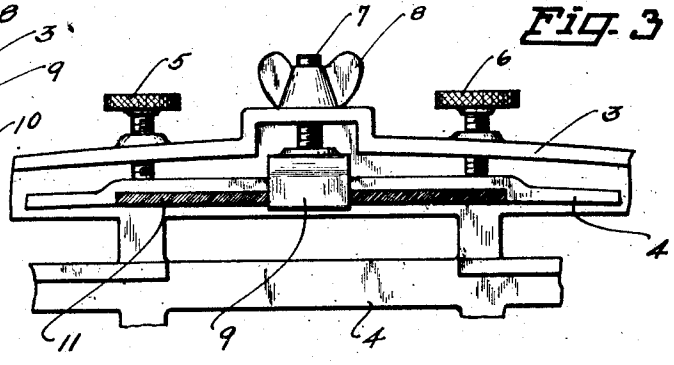


Fig. 3



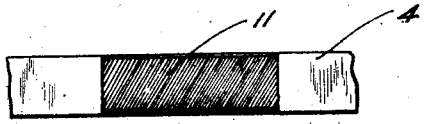


Fig. 5

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UNITED STATES PATENT OFFICE.

ARCHIE F. DOUGAN, OF COCHRAN, OREGON, ASSIGNOR OF FORTY-NINE ONE-HUNDREDTHS TO PETER HANSEN, OF COCHRAN, OREGON.

ROUGH AND SLICK JOINTER FOR FILING SAWS.

Application filed February 16, 1925. Serial No. 9,616.

My invention is for use in filing and jointing cross cut saws and has for its primary object the jointing of the saw to reduce the teeth to a uniform height.

Further objects of my invention consist in providing a file holder and slick which may be adapted to the curvature of the saw on its cutting edge.

A further object of my invention consists in the new and novel means of maintaining a file midway the ends of the tool.

A further object of my invention is to provide a ready means of changing the file or the placing of a file of different grade of cut in the holder.

A further object of my invention consists in providing tensioning means upon the file carrying member midway its ends and adjustable stops for locating the same in definite position.

Further objects of my invention consist in providing stops at or near the ends of the file carrying member to further facilitate uniform curvature upon the file carrying member.

I attain these objects by the mechanism illustrated in the accompanying drawings in which:—

Fig. 1 is a side elevation of a cross cut saw illustrating my invention upon the same and adapted to the curvature of the cutting edge of the saw.

Fig. 2 is a side elevation of the assembled device.

Fig. 3 is a fragmentary enlarged side elevation of the mid-section of the device.

Fig. 4 is a sectional view taken on line 4—4 of Fig. 2, looking in the direction indicated.

Fig. 5 is a fragmentary inverted plan view of the file holding mechanism illustrating the file in position.

Fig. 6 is a fragmentary side elevation of a saw showing the uneven heights of the teeth and the object to be obtained by the use of my invention.

Like reference characters refer to like parts throughout the several views.

1 is the saw which for different purposes, are made of different widths of blade and having different curvatures on the cutting edge, the curvature depending upon the character of material to be sawn and the size of the same.

Heretofore, the instruments for this purpose have been provided with a straight edge and the skill of the filer determines his ability to reduce the teeth along the curvature to a uniform height.

In my invention, before I start jointing the saw, I cause the curvature of the file holding member to conform to the curvature of the cutting edge of the saw to be filed; after which the filing is but a matter of the passing of the instrument along the cutting edge of the saw until all teeth have been reduced to a uniform height.

The instrument consists primarily of a frame member having a side engaging member 2 adapted to engagement with the side of the saw and a back member 3 to which it is attached at the place of manufacture. The frame is made of uniform material and sufficiently rigid to impart the curvature in the file holding member 4. The back member 3 has adjusting screws 5 and 6 located at either side of the center line of the instrument and operate through the back member 3. A third screw 7 is passed centrally through the back member and having a thumb nut 8 attached thereto. Upon the lower end of the screw 7 is a file holding bracket 9 having projecting lugs 10 on either side adapted to engagement with the file 11.

The file holding member 4 is adapted to engagement at its outer ends with the back 3, as shown at 12 and 13 and when pressure is applied upon the thumb screw 8, the file holder has a curvature imparted thereto until the curvature is the same as that of the saw to be jointed. When the curvature has been determined the screws 5 and 6 are then made to contact with the file holding member and additional pressure is then applied to form the same into a rigid unit after which the saw may be jointed by the passing of the instrument along the cutting edge of the saw until all teeth are reduced to a uniform height.

Having thus described my invention, I wish to make the following claim therefor:—

A rough and slick jointer for filing saws, comprising a frame structure consisting of a side and back member, a flexible file holding member maintained within the frame and parallel to the back member, said file holding member having its outer ends contacting with the outer ends of the back member, there being a space between and central of

said back and file holding members to allow for movement of the file holding member to and from the back member, means for maintaining a file within the file holding member, said means comprising a bracket having projecting lugs, a screw secured to said bracket, passed centrally through the back member and, by means of a thumb screw, adapted to create sufficient pressure between the lugs and the file holding member, to maintain a file therebetween; a means to impart a curvature to said file holding member, said means consisting of said bracket, screw and thumb screw pressing the central portion of the file holding member toward the central portion of the back member; and two adjusting screws placed one each side and adjacent the central bracket screw and adapted to impart a pressure on the file holding member, thereby maintaining the frame and file holding member as a rigid unit.

ARCHIE F. DOUGAN.