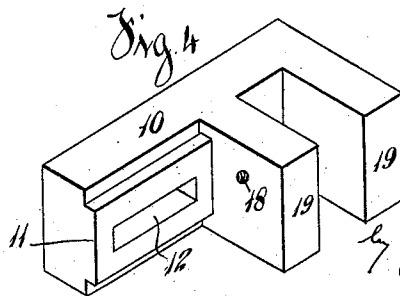
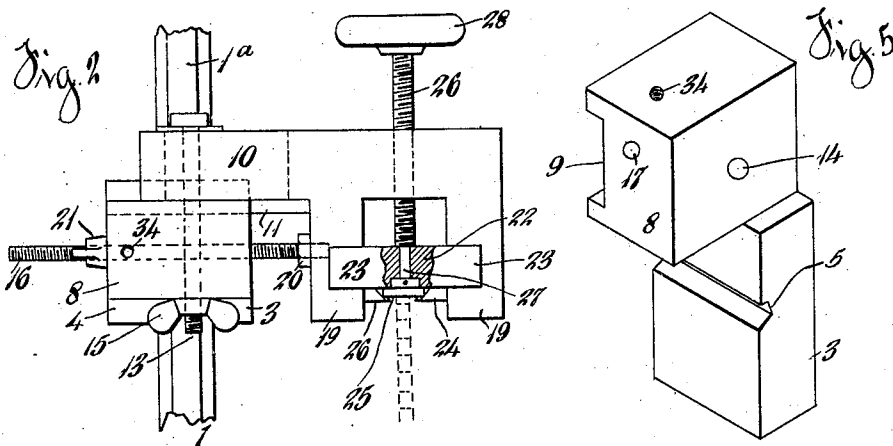
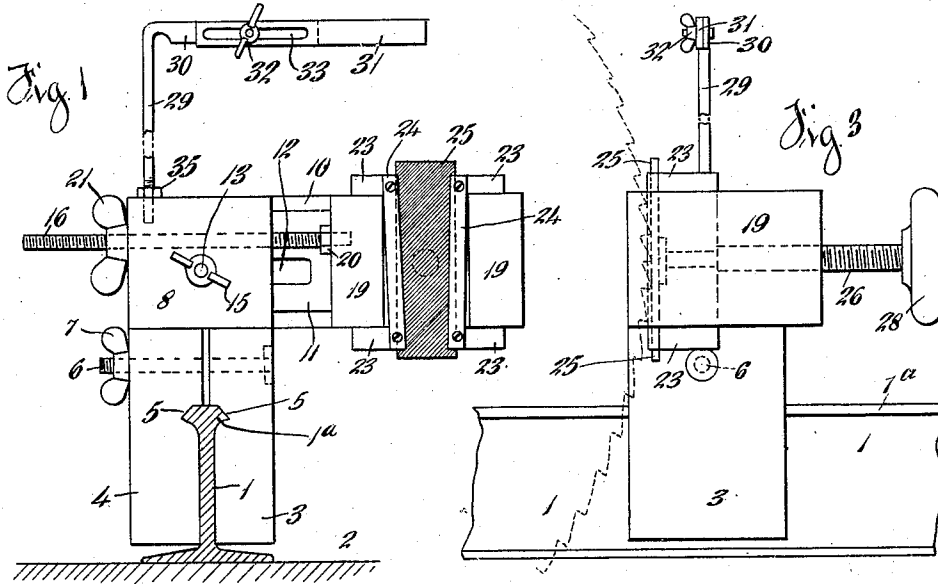


R. W. JONES.
 VENEER SAW LINER AND JOINTER.
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Witnesses
 Oliver L. Larnum
 Laura E. Shields

Inventor
 Robert W. Jones
 by John Elias Jones
 Attorney.

UNITED STATES PATENT OFFICE.

ROBERT W. JONES, OF COVINGTON, KENTUCKY.

VENEER-SAW LINER AND JOINTER.

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To all whom it may concern:

Be it known that I, ROBERT W. JONES, a citizen of the United States of America, and a resident of Covington, in the county of Kenton and State of Kentucky, have invented certain new and useful Improvements in Veneer-Saw Liners and Jointers, of which the following is a specification.

This invention relates to liners or gages and jointers for use in the operation of dressing and truing the toothed peripheral edges and main surfaces, respectively, of circular-saws and, more particularly, to the toothed edges of veneer-cutting saws that are ordinarily made in segments.

The object of the invention is to provide means for grinding or wearing down any unduly extended teeth of the saw, thereby making all of the teeth of uniform height and readily circularizing the cutting edge, such means being mounted for lateral, forward and backward adjustment to present, respectively, different grinding or reducing faces to said unduly extended teeth and different adjustments of said grinding faces to and from the toothed edges of saws of different diameters.

Another object of the invention, which is intended as an important adjunct to cooperate with that of the jointer in truing the said saw for work, is to provide an adjustable liner or gage adapted to be set in a position to lie in due relation to the side of the toothed edge of the saw, as well as to its main surface, to thereby determine when said side edge and surface are laterally true and to readily aid the saw maker or attendant in truing or setting said side edge and surface.

The details of the several features of the invention will be fully hereinafter described and particularly pointed out in the claims.

In the accompanying sheet of drawings, Figure 1 is a front elevation of my invention herein, the standard or upright portion of the liner or gage being partly broken away; Fig. 2, a plan view of Fig. 1, showing the file-holder partly broken away and in section; Fig. 3, a side elevation of Fig. 1, (looking from the right-hand side); Fig. 4, a detail perspective view of the laterally-adjustable carrier or slidable head used for supporting the grinding means; and Fig. 5, a detail perspective view of the main or pedestal one of the clamp-members used for sup-

porting said carrier for the grinding means and, also, for supporting the liner or gage.

In these views, 1 indicates a supporting-rail, preferably simulating the ordinary T-rail construction and mounted on a suitable supporting table or base 2, as best seen in Fig. 1.

3 indicates the pedestal or main clamp-member and 4 a coacting clamp-member, each having inner horizontal grooves 5, 5 engaging over the head 1^a of the rail 1 for firm clamping-contact. A horizontal bolt 6 connects the said two clamping-members 3 and 4 and a thumb-nut 7 is used to tightly draw on the bolt 6 for the clamping-contact over the rail 1. The pedestal 3 has a laterally-extended head 8 which is provided with a rear horizontal guide-way 9.

10 is a horizontal carrier or slidable head having a forwardly-projecting raised or shouldered portion 11 that engages the guide-way 9 of the pedestal 3. A horizontal slot 12 is made in the shouldered portion of said member 10 and a bolt 13 is passed through said slot for connecting-engagement with the part 8 of said pedestal 3. The bolt 13 is passed through a threaded hole 14 in the part 8 and a thumb-nut 15 is used on said bolt to draw the parts 8 and 10 firmly together when in adjusted position.

16 indicates an adjusting-screw passed through a smooth bore 17 in the part 8 of the pedestal 3 and having its inner threaded end engaged with a threaded socket 18 made in one of the forwardly-projecting arms 19 of the slidable head 10. A lock-nut 20 is provided on said adjusting-screw 16 and a thumb-nut 21 is also provided on said adjusting-screw, said thumb-nut being adapted for use in drawing the slidable head 10 along the guide-way 9 toward the pedestal 3, when the thumb-nut 15 has first been turned loose on the bolt 13.

22 indicates a vertical bar or block having lateral wings 23 at top and bottom and a pair of side-clamps 24 is duly secured by means of screws on its front face and at such distance apart to duly accommodate the jointer-file 25. The jointer-file 25 is preferably tapered so as to rest in tapered guide-ways in the side-clamps 24. The file is thus wedged in place between the side-clamps and thereby securely held for the action of the edges of the teeth of the saw against its grinding-face when said saw

teeth are to be dressed in jointing. An adjusting-screw 26 is duly coupled or swiveled at its inner end 27 to the vertical file-holder and its outer end is provided with a hand-wheel 28 whereby it may be turned to and fro within a threaded opening or bore made in the slidable head 10, as best seen in Fig. 2. The adjusting-screw 26 is adapted for use in arranging or setting the file or grinding surface 25 in the proper place to suit saws of different diameters.

Instead of using a file, an emery-block, or a grinding stone, or the like can be used and duly held in place between the side-clamps 24.

29 indicates the upright rod portion or standard of a liner or gage device used in relation to the side surfaces of the saw in order to detect any bulging or irregularities that would deter the effective use of the saw in cutting such a thin substance as veneer, and enabling the operator to readily repair same. A horizontal arm 30 projects from the upper end of said standard 29 and a bar 31 is detachably secured to said arm 30 by means of a thumb-screw 32, the latter engaging a slot 33 in said bar 31. In operation, when the jointer has been removed, the bar 31 can be readily adjusted in a horizontal direction to and from the adjacent face of the saw which has been approached by the liner by simply releasing the clamp-member 4 and sliding the pedestal-member 3 with the said clamp-member 4 and head 8 along the track-rail 1 in a line parallel to the face of the saw. The space, if any shows, between the outer end of bar 31 and the adjacent face of the saw, as the liner is drawn back and forth on its carrier-head 8, quickly indicates the amount of lateral defect in the said saw.

When using the liner or gage, the slidable head 10 that carries the jointer-file device is removed from place on the pedestal 3 and the clamp-member 4 is loosened so that the jointer can be advanced toward the saw along the rail 1. The standard 29 has

screw-threaded engagement at its lower end in a socket 34 provided in the top of the part 8 of the pedestal 3 and a lock-nut 35 is used to hold the liner from turning and accidental removal, especially when in use for lining or gaging the saw.

I claim:—

1. In a saw-jointer device, a pedestal clamp-member, a locking clamp-member, a supporting-rail gripped between said clamp-members, a carrier or slidable head having a horizontally-slotted portion therein, means comprising a bolt for adjustably securing said carrier in a guide-way at the upper portion of said pedestal clamp-member, horizontal, suitably spaced arms on said carrier forming a guide-way, a holder bar or block mounted between and supported by said spaced arms and having vertical side-clamps forming a holder guide-way on its fore face, a file or similar grinding means mounted in said side-clamps and a horizontal hand-screw adapted to adjustably hold the file or grinding surface in position to suit different diameters of saws.

2. A circular-saw jointer device comprising a supporting-rail, a pedestal clamp-member, a lock clamp-member, a transverse bolt connecting and gripping said clamp-members on said supporting-rail, a carrier or slidable head having a horizontally-slotted portion engaging a horizontal guide-way on said pedestal clamp-member, a transverse bolt adjustably connecting said carrier to said pedestal clamp-member, an adjusting-screw for said carrier, horizontal, suitably spaced arms on said carrier, a vertical file-holder mounted in said spaced arms, a grinding surface or jointer-file detachably mounted on said holder between said spaced arms and a horizontal adjusting-screw for said file-holder.

ROBERT W. JONES.

Witnesses:

JOHN ELIAS JONES,
LAURA E. SHIELDS.