

(No Model.)

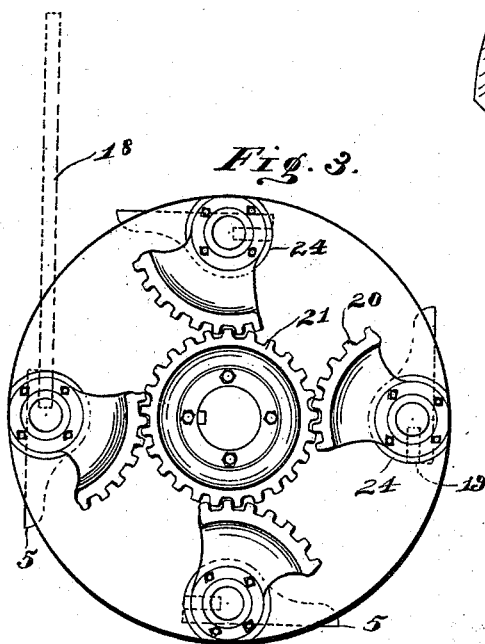
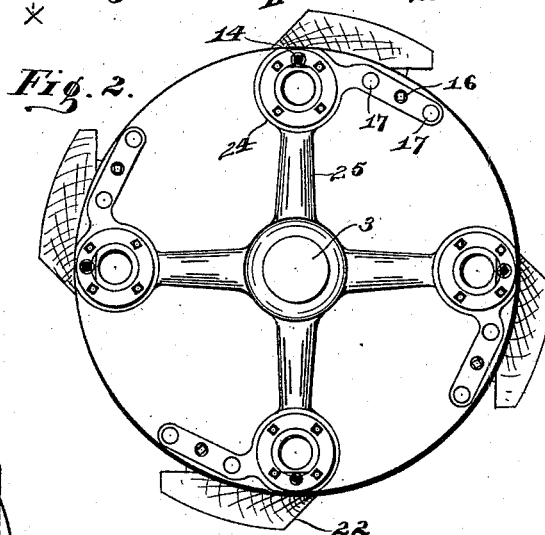
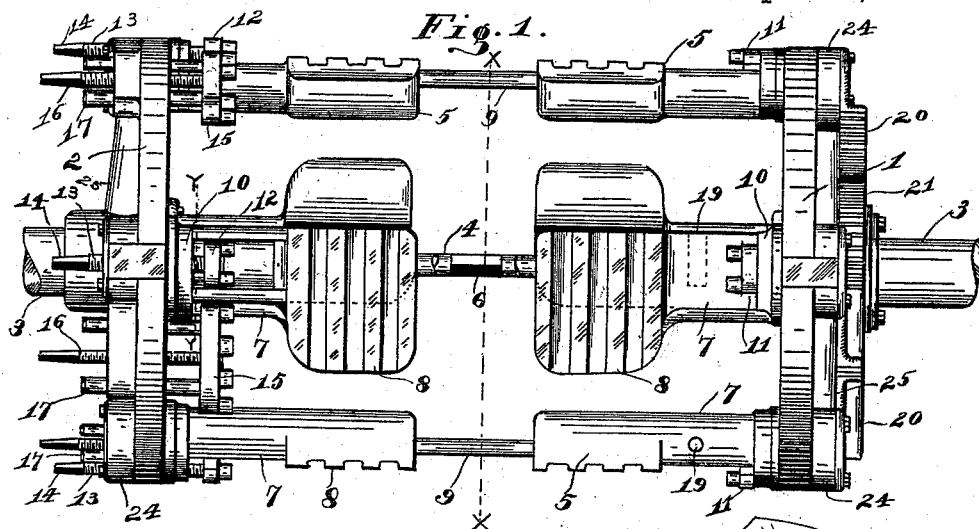
2 Sheets—Sheet 1.

M. D. WILLIAMSON.

QUARTER LOG HOLDER FOR VENEER CUTTING MACHINES.

No. 526,337.

Patented Sept. 18, 1894.



Witnesses
A. S. Conright
Lela Monroe

Inventor
Marshal D. Williamson

By Attorney V. H. Lockwood

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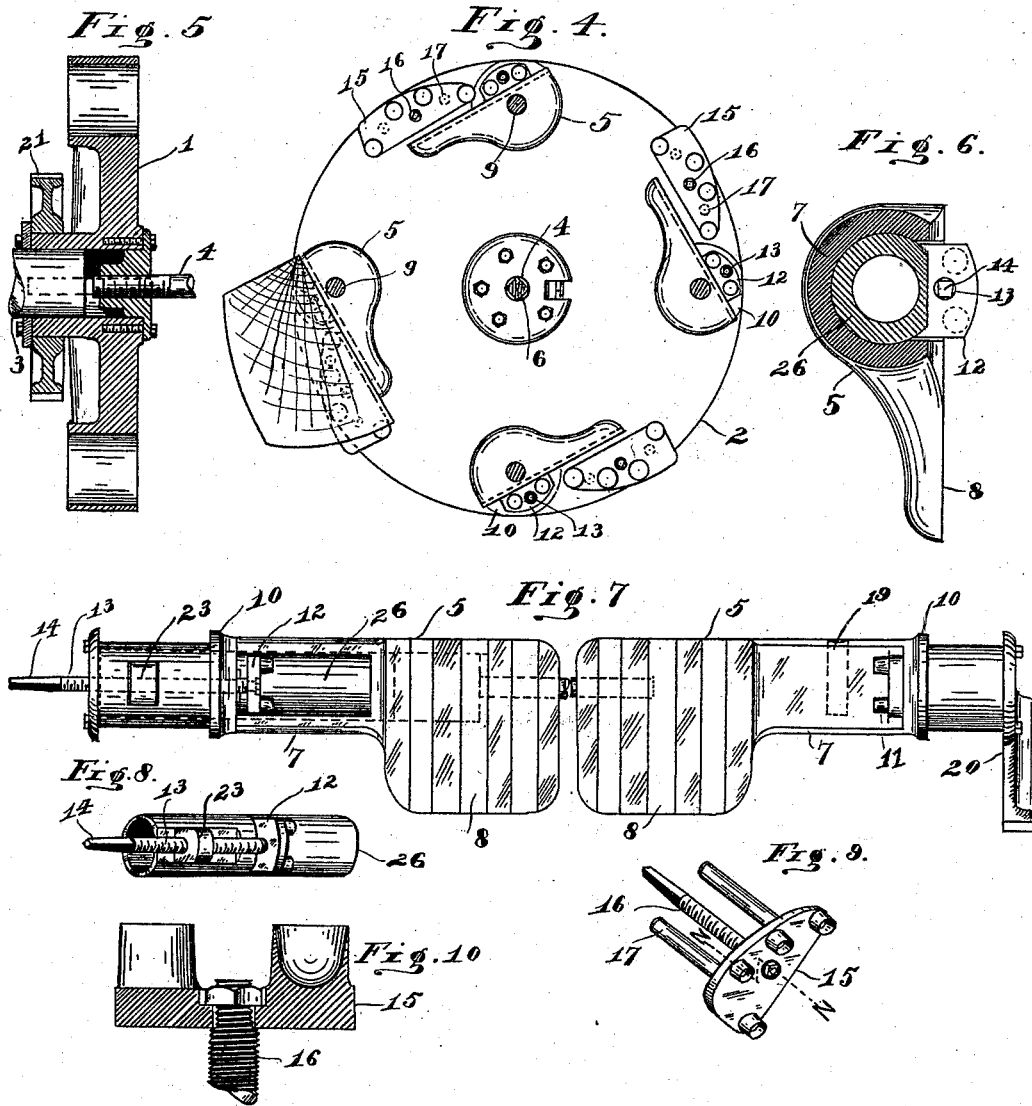
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UNITED STATES PATENT OFFICE.

MARSHALL D. WILLIAMSON, OF INDIANAPOLIS, INDIANA, ASSIGNOR TO
ADAMS & WILLIAMSON, OF SAME PLACE.

QUARTER-LOG HOLDER FOR VENEER-CUTTING MACHINES.

SPECIFICATION forming part of Letters Patent No. 526,337, dated September 18, 1894.

Application filed May 4, 1894. Serial No. 510,123. (No model.)

To all whom it may concern:

Be it known that I, MARSHALL D. WILLIAMSON, of Indianapolis, county of Marion, and State of Indiana, have invented a certain new and useful Quarter-Log Holder for Veneer-Cutting Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which like figures refer to like parts.

My invention relates to a quarter-log holder for a veneer cutting machine adapted to cut veneer from quarter sawed timber. Its object is to enable one to mount and securely hold simultaneously more than one quarter sawed block in a frame adapted to rotate and present the block successively to the knife.

The nature of this invention will appear more fully from the following description and the accompanying drawings.

Figure 1 is a side elevation of my quarter-log holder. Fig. 2 is a view of the left hand end of Fig. 1. Fig. 3 is a view of the right hand end of Fig. 1. Fig. 4 is a section on the line $x-x$ Fig. 1. Fig. 5 is a transverse section of the right hand end of Fig. 1. Fig. 6 is a cross section through $y-y$ Fig. 1. Fig. 7 is a plan view of one stay-log, the connecting rod being broken away. Fig. 8 is a perspective view of the adjustable bit shown on the left hand end of Fig. 7. Fig. 9 is a perspective view of an adjustable chuck. Fig. 10 is a section of the same on the line $z-z$ Fig. 9.

In detail 1 and 2 are cylindrical heads, one being at each end of the device and being provided with the spindles 3, which are seen broken away in Fig. 1, whereby the device is mounted. These heads 1 and 2 are connected centrally by a tie rod 4 and also near their peripheries by the stay-logs 5. These stay logs are the means upon which the quarter sawed timber or blocks are placed and held. The tie rod 4 is threaded at each end and squared in the middle at 6 whereby the distance that the heads are from each other may be adjusted. A function of this tie-rod 4 is to strengthen and reinforce the heads 1 and 2 centrally. The stay-logs 5 are secured to the inner faces of the heads 1 and 2 as shown in Fig. 4 near their periphery. The stay-logs 5

are formed of two end pieces 7 having flat faces on which the log or block rests, the flat face of the quarter of the log being placed on the flat face of the stay-log. The two ends 7 of each stay-log are connected by the connecting rod or shaft 9 that fits snugly in a bore made for it in the ends 7 of the stay-logs. By this means the ends of the stay-log may be brought closer together or separated and in fact, the length of the whole device adjusted to suit the length of the timber to be cut. The ends 7 of the stay-logs are mounted rotatably in the heads 1 and 2, that is, so that they can rotate partially at least around their centers. Each end 7 of the stay logs is provided with a flange 10 to which is secured at one end a stationary bit 11 and through which at the other end is an adjustable bit 12 mounted rigidly on the sleeve which slides in a bore in an end of the stay-log. The bit is adjusted by a screwbolt 13 having a head 14 whereby the bit 12 is moved inward and outward. These bits 11 and 12 may be made in any desired form to grip and hold timber. Here they are shown cup shaped. In order to assist these bits in holding the block or quarter-log, I provide an adjustable chuck 15 mounted on the screw bolt 16 which extends through the head 2 and is strengthened by the guide rods 17. This adjustable chuck is shown in detail in Fig. 9 and one of the bits on it is shown in section in Fig. 10. The bits in this chuck may also be formed otherwise than cup shaped as shown.

After a log is quartered, each quarter is placed with one face down on the stay-log 7 with one end secured by the bit 11. Then the bit 12 and the chuck 15 are moved up to the other end of the log and set into that end whereby the log is firmly held. After the four quarter-logs are placed in this manner, the device is rotated in connection with a veneer cutting machine until the logs need changing. In order to change the position of the log, the adjustable chuck 15 is withdrawn and the log released from its grip, leaving the log supported by the bits 11 and 12 only. Then, a bar 18 is inserted into the socket 19 in one of the stay-logs whereby such stay-log is turned partially as far as desired. In order to turn all the logs mounted on this

device simultaneously and to the same extent, I provide on the outer side of the head 1 a toothed segment 20 mounted on the outer end of the spindle connected with each stay log and have these toothed segments mesh with a spur wheel 21 centrally mounted to the head 1. Any rotation of one stay-log therefore will be transmitted to all the other stay-logs. In this manner, the blocks or quarter logs are simultaneously adjusted whenever they need to be until they are entirely cut up.

In the drawings, the blocks or logs are represented by 22. The construction of the adjustable bit 12 that is preferable is shown in Fig. 8 where the screw bolt 13 passes through the threaded stud 23. The heads 1 and 2 are shown in the drawings reinforced by the bosses 24 and the ribs 25.

Without limiting myself to the specific form shown, what I claim as my invention, and desire to secure by Letters Patent, is—

1. A quarter-log holder for a veneer cutting machine consisting of two heads suitably mounted, stay-logs extending between and connected to such heads, means for adjusting the length of such stay-logs, and means of holding quarter-logs on such stay logs.

2. A quarter-log holder for a veneer cutting machine two heads suitably mounted, adjustable stay-logs extending between such heads and connected thereto, an adjustable tie-bar threaded at each end and square in the middle connecting such heads centrally, and means of holding the quarter log on the stay log.

3. A quarter-log holder for a veneer cutting machine consisting of two heads suitably mounted, stay-logs extending between and

connected to such heads, and adjustable bits mounted at the ends of the stay-logs on threaded rods extending through the heads and adapted to grip the ends of the log when inserted.

4. A quarter-log holder for a veneer cutting machine consisting of two heads suitably mounted, stay-logs extending between and connected to such heads, adjustable bits at the end of such stay-logs adapted to grip the ends of the quarter-log when inserted, and adjustable chucks mounted in the head and adapted to more securely hold the quarter-log in place.

5. A quarter-log holder for a veneer cutting machine consisting of two heads suitably mounted, stay-logs extending between such heads and rotatably mounted therein, means of holding quarter-logs on such stay-logs, and means of rotating such stay-logs simultaneously when desired to alter the position of the log being cut.

6. A quarter-log holder for a veneer cutting machine consisting of two heads suitably mounted, stay-logs extending between such heads and rotatably mounted therein, means of holding the quarter-logs on such stay-logs, a cogged segment mounted on the end of each stay-log, a spur wheel centrally mounted on a head and adapted to mesh with all the cogged segments, and means of turning one stay-log, whereby all will be simultaneously and equally turned.

In witness whereof I have hereunto set my hand this 20th day of April, 1894.

MARSHALL D. WILLIAMSON.

Witnesses:

V. H. LOCKWOOD,
LELA MONROE.