

(No Model.)

M. D. WILLIAMSON.

ADJUSTABLE PRESSURE BAR FOR VENEER CUTTING MACHINES.

No. 479,750.

Patented July 26, 1892.

FIG. 1.

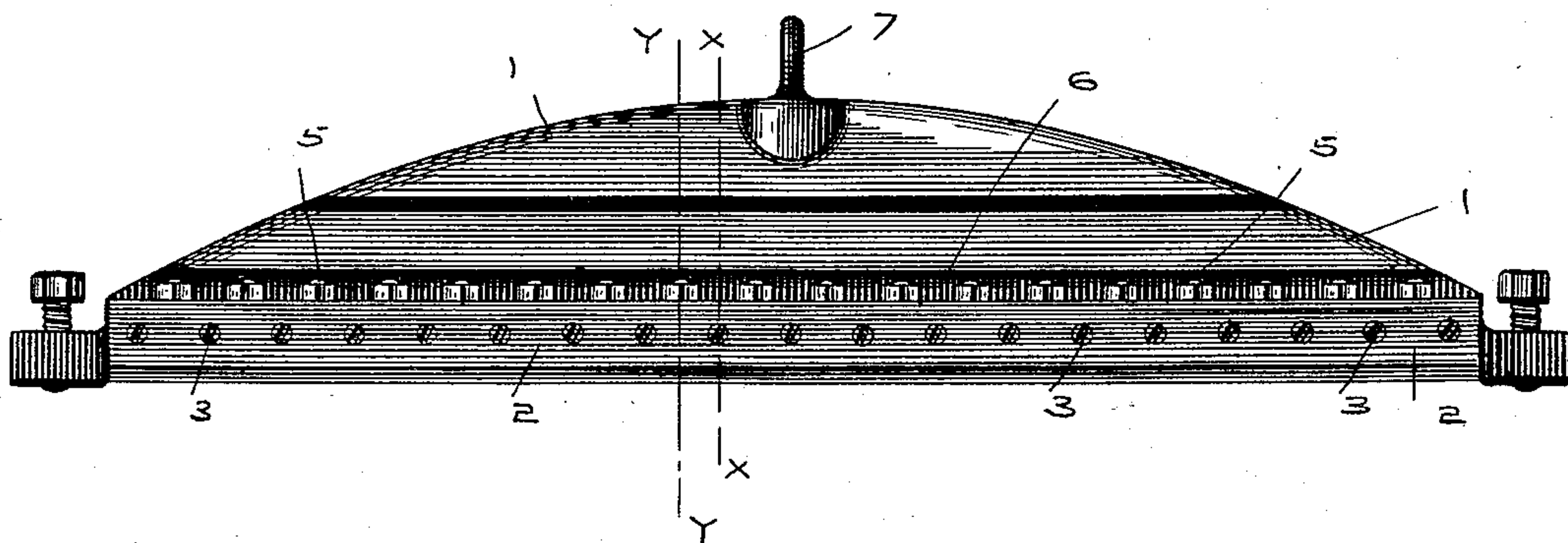
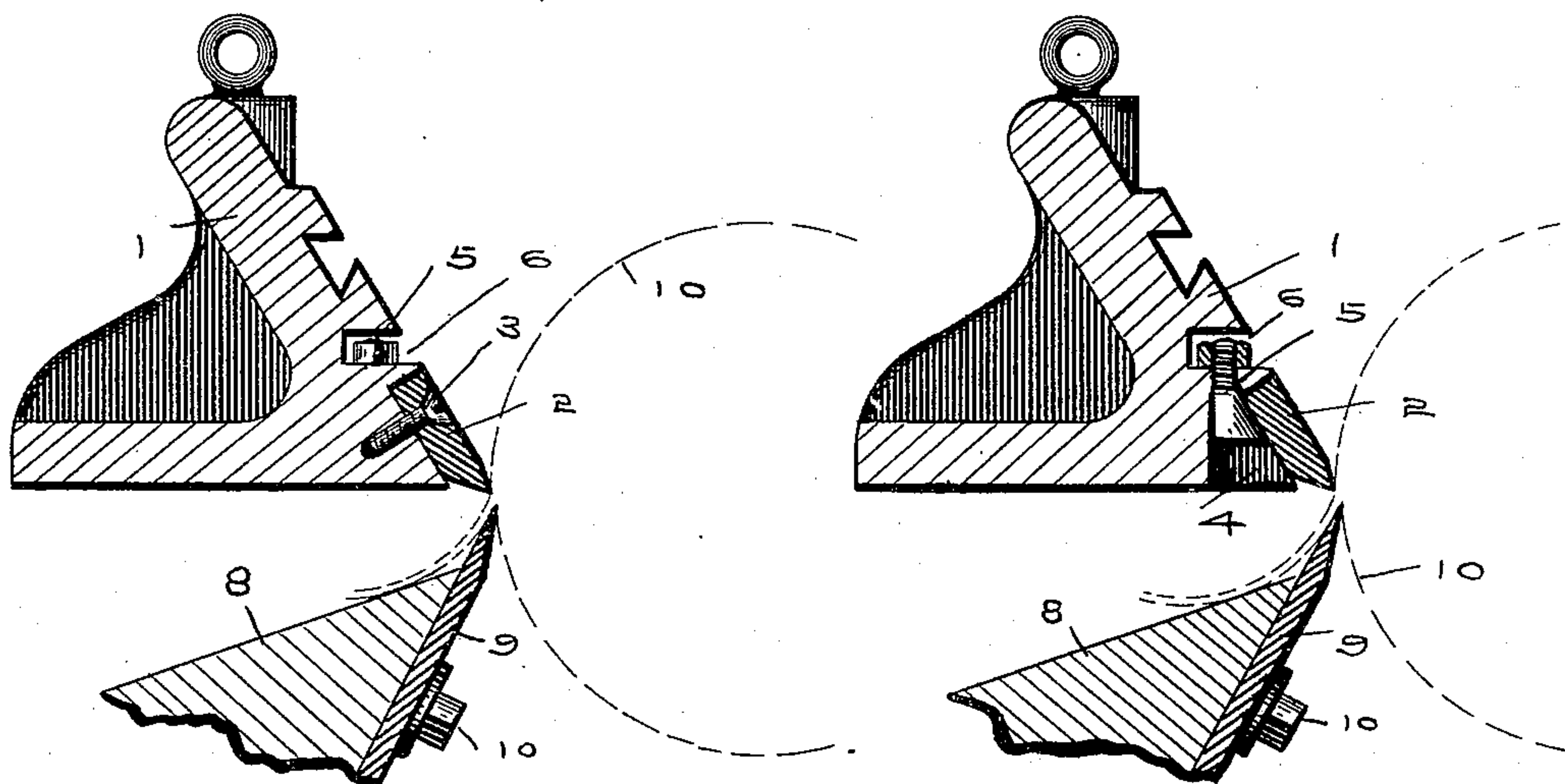


FIG. 2.

FIG. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

MARSHALL D. WILLIAMSON, OF INDIANAPOLIS, INDIANA, ASSIGNOR TO
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ADJUSTABLE PRESSURE-BAR FOR VENEER-CUTTING MACHINES.

SPECIFICATION forming part of Letters Patent No. 479,750, dated July 26, 1892.

Application filed February 6, 1892. Serial No. 420,609. (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 certain new and useful Improvements in Adjustable Pressure-Bars 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 improvements in the construction and operation of pressure-bars for veneer-cutting machines, and will be understood from the following description.

In the drawings, Figure 1 is a front view of a veneer-cutting-machine cap with my device attached. Fig. 2 is an enlarged cross-section through the same on the line xx , Fig. 1. Fig. 3 is a similar view on the line yy , Fig. 1.

In detail 1 represents the cap, which is attached to the machine in the ordinary manner, and 2 is the pressure-bar, which is secured in a recess in the face of the cap by set-screws 3, its lower edge projecting slightly and being beveled, the screws 3 passing directly through the bar into the body of the cap.

In the rear of the pressure-bar and between each of its set-screws are formed narrow recesses 4, and in these recesses the heads of the screw bolts 5 are adapted to work, one side of their heads being beveled and contacting with the rear of the pressure-plate, which, as shown in Figs. 2 and 3, is set on the same angle with the face of the cap 1. The bolts 5 extend up through openings in the cap, along the face of which is a groove or channel 6, the bolts coming up into this channel, and nuts are secured on their ends for adjustment.

7 is a ring attached to the top of the cap for lifting the same.

8 represents the position of the bed plate of machine; 9, the cutting-knife, which is secured by bolts 10 to the bed-plate, and 11 indicates in dotted lines the log that is being cut.

Whenever a new knife or one that has been resharpened is attached in place on a veneer-machine, the cutting-edge of the knife is never perfectly true or in a straight line, and it is almost impossible to overcome this difficulty by operating on the knife-edge itself, and in order to overcome this I make the pressure-

bar, which bears on the log a little ahead of the cut of the knife, adjustable, so that by its movement any irregularity or imperfection in the edge of the knife may be compensated for. As soon as any imperfections are found in the edge of the knife by operating the nuts on the end of the bolts 5 the pressure-bar can be readily adjusted so that its edge will be in a true line with the edge of the knife, the pressure-bar having enough elasticity to allow its being bent the slight distance which is required, which is never but a very small fraction of an inch, and with the great power of the bevel-headed bolts this is easily accomplished, thereby making the bearing of the pressure-bar against the log the same along its whole length, thus aiding in cutting the veneer exactly the same thickness and preventing any splitting or slivering of the wood in advance of the knife. The pressure-bar being set on the same angle as the tapered heads of the bolts 5, which contact with the back of the bar when the bolts are drawn upward, the pressure-bar is forced forward and at the same time on increasing the upward movement of the bolts the pressure-bar will be inclined to be forced upward as well as forward, thus allowing practically two adjustments of the pressure-bar with one movement of the screw-bolts.

It is obvious that changes may be made in my device without departing from the spirit of my invention; but

What I claim is—

1. In a veneer-cutting machine, a pressure-bar secured to the cap thereof by screws, and bolts provided with tapered heads seated in such cap, such heads adapted to come in contact with the pressure-bar, whereby it is adjustable, in combination with a cutting-knife secured to the bed-plate of the machine, substantially as shown and described.

2. In a veneer-cutting machine, a pressure-bar secured to the cap thereof and adjustable in relation to the edge of the knife by means of bolts seated in such cap, such bolts provided with tapered heads adapted to bear against the underside of the pressure-bar, in combination with a cutting-knife secured to the bed-plate of the machine, substantially as shown and described.

3. In a veneer-cutting machine, a cap having a pressure-bar secured to the face thereof by set-screws, recesses formed in the rear of such bar, and bolts seated in the cap, their beveled heads within such recesses and bearing against the under side of the pressure-bar, whereby the latter may be laterally adjusted, in combination with a cutting-knife secured to the bed-plate of the machine, substantially as shown and described.

4. In a veneer-cutting machine, a cap having a pressure-bar attached to its face by means of screws, recesses formed in the cap between such screws, and bolts seated in the

cap and provided with beveled heads, the latter working within such recesses, the beveled heads of such bolts bearing against the under side of the pressure-bar, whereby the latter may be adjusted in relation to the edge of the knife-blade, in combination with a cutting-knife secured to the bed-plate of the machine, substantially as shown and described.

In witness whereof I have hereunto set my hand this 30th day of January, 1892.

MARSHALL D. WILLIAMSON.

Witnesses:

H. D. NEALY,
E. B. GRIFFITH.