

(No Model.)

C. A. DALY.
AUTOMATIC JOINTER GUARD.

No. 519,698.

Patented May 15, 1894.

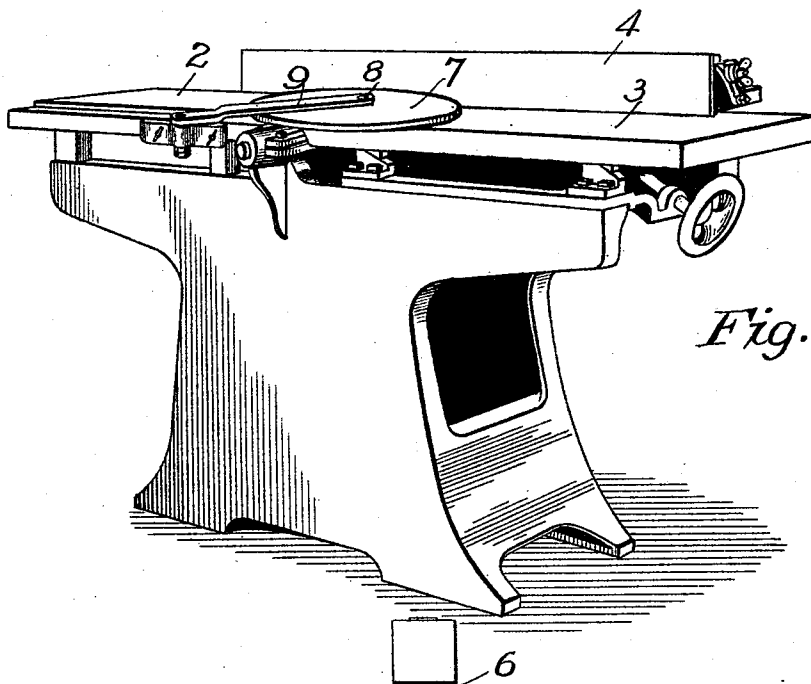


Fig. 1.

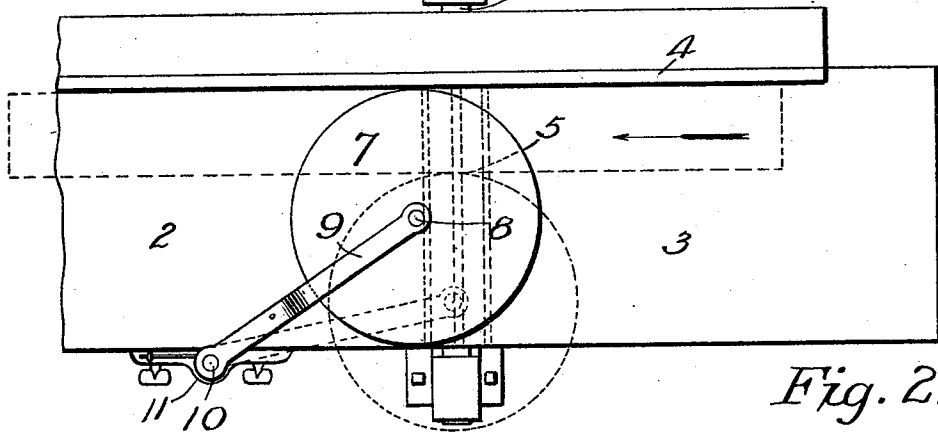


Fig. 2.

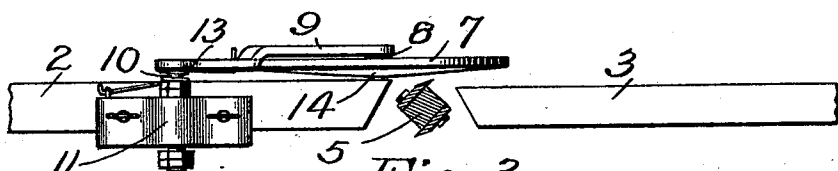


Fig. 3.

Witnesses.

C. E. Van Doren.

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UNITED STATES PATENT OFFICE.

CHARLES A. DALY, OF MINNEAPOLIS, MINNESOTA, ASSIGNOR OF TWO-THIRDS
TO MARTIN C. WILLIAMS AND WILLIAM C. JOHNSON, OF SAME PLACE.

AUTOMATIC JOINTER-GUARD.

SPECIFICATION forming part of Letters Patent No. 519,698, dated May 15, 1894.

Application filed August 11, 1893. Serial No. 482,916. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. DALY, of the city of Minneapolis, county of Hennepin, State of Minnesota, have invented certain new and useful Improvements in Automatic Jointer-Guards, of which the following is a specification.

My invention relates to means for protecting workmen from injury by the rapidly revolving cutters of jointing machines, which machines are entirely open at the top with the cutters exposed and consequently dangerous.

The object of the invention is to provide a simple, cheap, adjustable, automatic and absolutely safe guard for jointers and one which will entirely cover the cutters or knives.

My invention consists in general in the construction and combinations hereinafter described and particularly pointed out in the claims and will be more readily understood by reference to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a perspective view showing a jointing machine provided with a device embodying my invention. Fig. 2 is an enlarged plan view thereof. Fig. 3 is a side elevation taken from Fig. 2.

In the drawings, I have shown a complete jointer, the tables 2 and 3, the guide 4 and the revolving cutters 5 of which are all of the ordinary construction, means being provided for elevating one or both tables, and the table 2 being ordinarily somewhat higher than the other. The revolving cutter is arranged upon an arbor 6, and the knives as they revolve project upward flush with the surface of the table 2 and extend clear across the end thereof. When the movable guide 4 is in the position shown in the drawings almost the entire cutter is exposed and a person using the machine is very apt to be struck by the knives while holding the stick or board close on the table and against the guide 4. To prevent this I provide a large thin disk or wheel 7 preferably made of wood, and preferably thinner than any board commonly worked on the jointer so that the wheel will not interfere with the hands of the person

feeding the machine. The wheel is of nearly 50 if not quite the width of the machine and covers the entire cutter, when the machine is not in use. The wheel is arranged upon a short stud shaft or bolt 8, which is fixed in the end of the long swinging arm 9, at the 55 other end of which is a downwardly projecting shaft or stud 10 having bearing in the box 11, adjustably secured to the jointer by any suitable means. The wheel is held lightly against the guide 4 or against the stick passing 60 between the two, by a light spring 13, the strength of which is preferably just sufficient to hold the wheel in place without adding any extra resistance to the feeding of the stick or board being worked. As the wheel or disk 65 is sometimes tilted on its axis by the weight of the operator's hand, I preferably cone the under side 14, thereof, so that the cutters will at no time catch in the wheel.

It is obvious that the precise construction 70 shown and described may be modified somewhat without departing from the spirit of my invention, and I therefore do not confine myself strictly thereto.

Having thus described my invention, I 75 claim as new and desire to secure by Letters Patent—

1. The combination, of the jointer, and the revolving cutters thereof, with the guide, a large disk arranged to fully cover said cutter, and a swinging arm carrying said disk and adapted to swing outwardly, substantially as described and for the purpose specified.

2. The combination, with the bed and the revolving cutters, of the large disk 7 adapted 85 to fully cover said cutter and having the conical lower side, the swinging arm 9, whereon said disk is journaled, an adjustable block whereon said arm is pivoted, and a light spring connected with the arm for normally 90 holding said disk over said cutter, substantially as described.

In testimony whereof I have hereunto set my hand this 3d day of August, 1893.

CHARLES A. DALY.

In presence of—

C. G. HAWLEY,
M. E. GOOLEY.