

(No Model.)

J. McKNIGHT.  
PLANE GUIDE.

No. 507,378.

Patented Oct. 24, 1893.

Fig. 1.

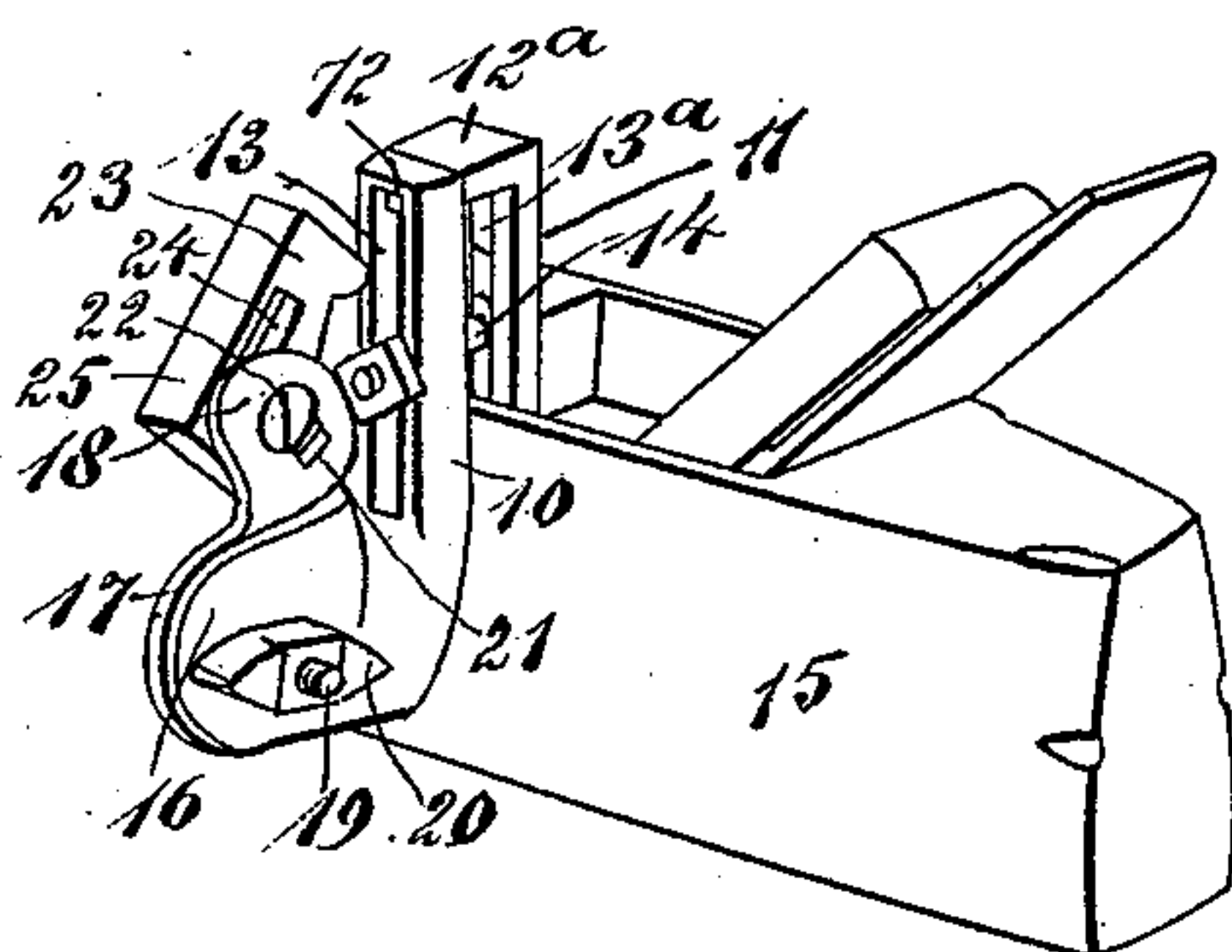
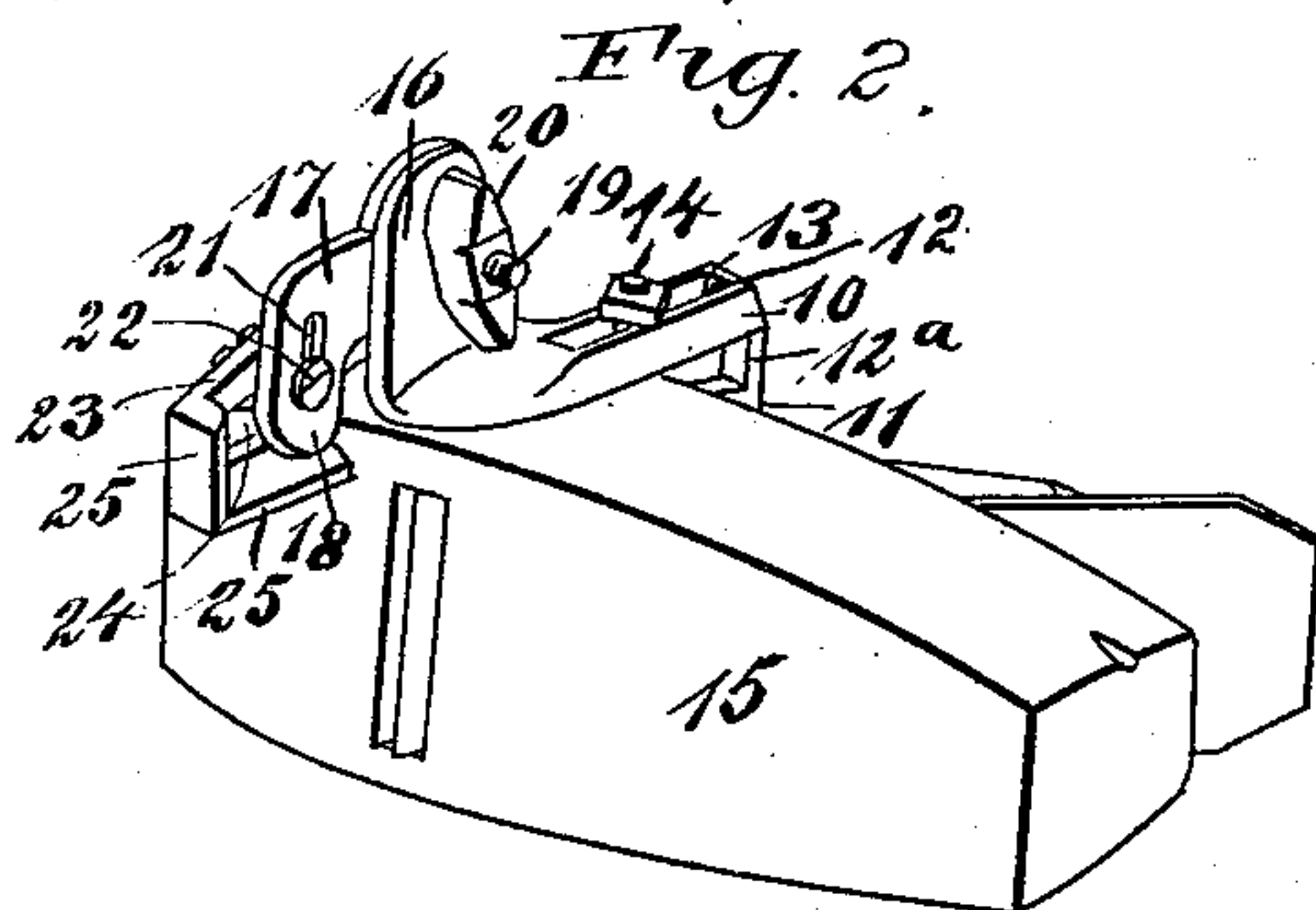


Fig. 2.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

JOHN MCKNIGHT, OF FREDERICTON, CANADA.

## PLANE-GUIDE.

SPECIFICATION forming part of Letters Patent No. 507,378, dated October 24, 1893.

Application filed September 24, 1892. Serial No. 446,794. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN MCKNIGHT, of Fredericton, in the Province of New Brunswick and Dominion of Canada, have invented  
5 a new and Improved Plane-Guide, of which the following is a full, clear, and exact description.

My invention relates to improvements in plane attachments, and the object of my invention is to produce a cheap and simple  
10 guide which may be attached to any kind of a plane, which is adapted to guide the plane so as to enable the edge of a board to be planed perfectly true and square, and which  
15 also may be adjusted so as to guide the plane in such a manner as to plane the edge of the board on any desired bevel.

To these ends my invention consists in a plane guide, the construction of which will  
20 be hereinafter described.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar figures of reference indicate corresponding parts in both the views.

25 Figure 1 is a perspective view of the guide embodying my invention, showing it attached to a plane and with the guide block swung upward to permit the plane to be used in the ordinary way for surface planing; and Fig. 2  
30 is a perspective view of the plane guide and plane showing the bottom of the plane and with the guide block in position for use.

The same guide is provided with two jaws or clamping pieces 10 and 11 which are adapted  
35 to be placed parallel with each other and fastened to the top portion of the plane to permit of the lateral adjustment of the jaws so as to enable them to straddle one side of the plane, as described below; they have what  
40 is substantially a hinge connection at the top, the jaw 11 having an offset 12<sup>a</sup> with a tongue 12 thereon which enters the upper portion of the jaw 10. The jaws 10 and 11 are provided with central vertical slots 13 and 13<sup>a</sup> through  
45 which extends a clamping bolt 14 having a suitable nut on one end, and by tightening the nut the jaws may be held together and clamped firmly to the plane 15. When the jaws are to be applied to the plane, the jaw  
50 11 is placed inside the plane, that is, in the

top recess of the plane, and the jaw 10 on the outside, as shown in Fig. 1. The jaw 10 has a laterally extending offset 16 at the bottom, on which is hinged an outwardly swinging arm 17, which arm has an outward bend at  
55 its free end, as shown at 18. The hinge connection between the arm 17 and offset 16, is formed by the bolt 19, which bolt is provided with a thumb nut 20 and by tightening the nut the arm 17 may be held in any desired  
60 position in relation to the offset 16.

The bent end 18 of the arm 17 is slotted laterally, as shown at 21, so as to permit the adjustment of the fastening screw 22 which  
65 is held in the arm, and this screw serves to bind the guide block 23 to the arm. This guide block is also slotted longitudinally, as shown at 24, and consequently the block and arm may be brought to any necessary position  
70 in relation to each other, the adjustment being necessary to enable the attachment to be applied to any kind of a plane.

The guide block 23 has at the end and on one side, a smooth flat bearing flange 25, the flange at the side of the block being adapted  
75 to fit against the side or edge of a board, and one of the end flanges being adapted to strike against the edge of the plane bottom, as shown in Fig. 2. When the guide block 23 is swung downward and fastened with its upper  
80 end against the plane bottom, the block will be held at right angles to the bottom of the plane, and if a board is to be edged, the guide block is permitted to run upon the flat  
85 face of the board and the plane knife is brought upon the edge so that a perfectly true and square edge may be produced even by a novice.

If the edge is to be planed on a bevel, the arm 17 and block 23 are adjusted so as to extend  
90 at an obtuse angle to the plane bottom, and when brought to the desired angle the thumb nut 20 is tightened so as to hold the arm securely in place, and by permitting the guide block to run upon the surface of the  
95 board, the edge may be planed on any desired bevel.

From the foregoing description it will be seen that this device is very cheap and simple,  
100 and the parts of it may be cast. It will



also be seen that by reason of its adjustability, the guide may be attached to planes of any size, and the plane may be made to edge a board so as to produce a square edge or a bevel edge.

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

1. In a plane guide, the combination with jaws for attaching the guide to a plane, and an adjustable arm, on one of the jaws, of a guide block longitudinally and laterally adjustable on said arm, substantially as described.

2. In a plane guide, the combination with jaws, of an arm adjustably connected to one jaw and provided with a lateral slot, a guide block provided with a longitudinal slot, and a binding screw or bolt passing through the slots of the arm and guide block, substantially as described.

3. A plane guide, comprising two slotted and hinged jaws, one of which is provided with an offset, a clamping bolt passing through the slots of the jaws, an adjustable arm carried by the said offset, and an adjustable guide block carried by the arm, substantially as described.

4. The herein described plane guide, consisting of the slotted and hinged jaws 10 and 11, the jaw 10 being provided with the offset 16, the clamping bolt 14, the arm 17 pivoted to the offset by the bolt 19 and nut 20 and provided with the lateral slot 21, the guide block 23 provided with the longitudinal slot 24 and flanges 25, and the screw 22 securing the block to the arm, as specified.

JOHN McKNIGHT.

Witnesses:

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