

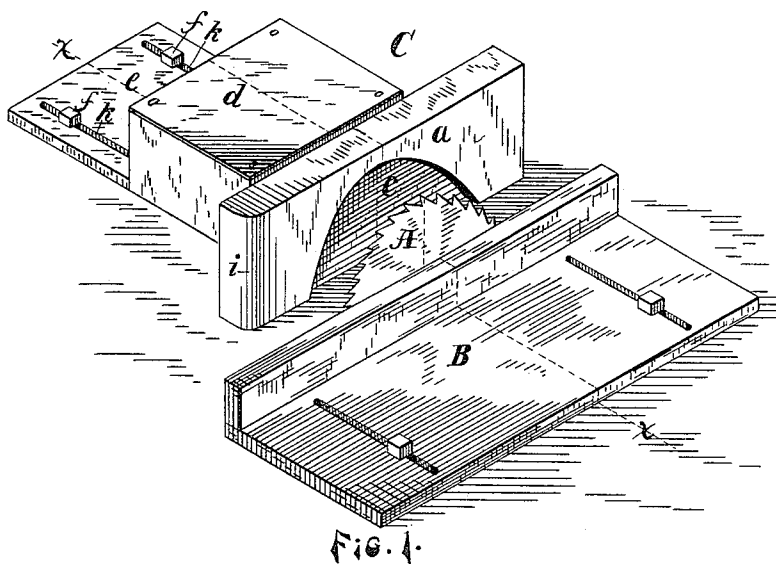
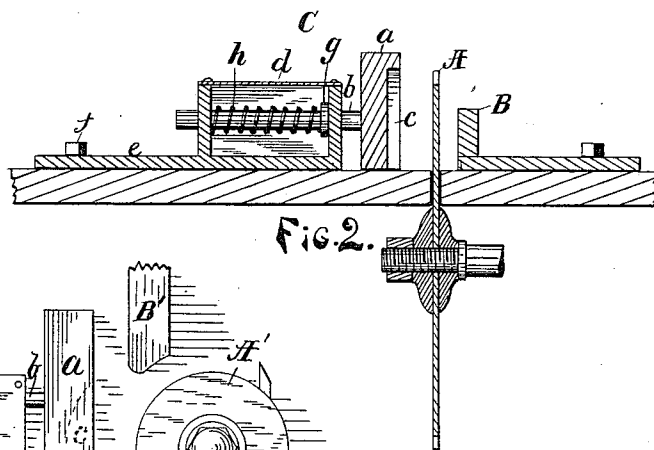
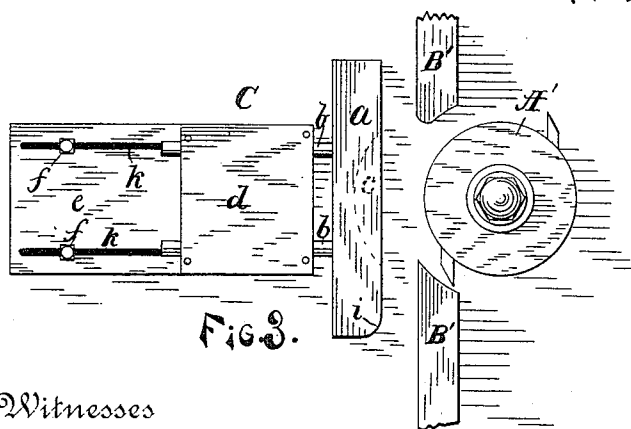
(No Model.)

N. STALTER.

GAGE FOR WOOD WORKING MACHINES.

No. 363,016

Patented May 17, 1887.



Witnesses

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NICHOLAS STALTER, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR OF ONE-HALF TO MILO STALTER, OF SAME PLACE.

GAGE FOR WOOD-WORKING MACHINES.

SPECIFICATION forming part of Letters Patent No. 363,016, dated May 17, 1887.

Application filed January 26, 1887. Serial No. 225,608. (No model.)

To all whom it may concern:

Be it known that I, NICHOLAS STALTER, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented a new and useful Safety-Gage for Wood-Working Machinery, of which the following is a specification.

My invention relates to improvements in gages designed to direct the movement of pieces of wood while operated upon by a rotating cutting-tool, such as a circular saw or shaper.

Heretofore it has been customary to guide the piece of wood operated upon by the hand operating in conjunction with a fixed gage, which is dangerous to the operator. There is danger, also, that the piece will, after passing the cutting-tool, be caught and thrown back by the same, thus endangering persons that may be near; also, sometimes sufficient pressure is not applied by the hand to guide the piece aright, and defective work is the result.

The object of my invention is to provide protection against bringing the hand of the operator in contact with the cutting-tool, to insure sufficient pressure at all times, and to guard against throwing the piece by the tool. I accomplish these results by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a perspective of my device adapted to a circular saw; Fig. 2, a vertical section of the same on the line *x x*, Fig. 1; Fig. 3, a plan of my device adapted to a shaper.

Like letters refer to like parts in all the figures.

A is a circular saw, having a gage, B, and A' a shaper-head with a gage, B'.

C is my device, which consists of a suitable block, *a*, having a rounded corner, *i*, and attached to rods *b*, which pass through the casing *d* and have attached a collar, *g*, against which the spring *h* operates to press the block *a* in the direction of the cutting-tool A. The bottom of the casing *d* is prolonged at the side opposite the cutting-tool, and is provided with screws *f f* to secure the device to the table, said

screws passing through slots *k k* to permit of adjustment for various thickness of stuff.

c is a chamber, into which the tool passes when the device is set for thin stuff.

The operation of my device is as follows:

The cutting-tool being in motion and the parts adjusted for the particular work in hand, as the piece to be operated upon is placed against the gage B and pressed forward toward said tool the corner of said piece will strike the rounded corner of the block *a* and press said block back from the tool. The tension of the springs *h* will, through the collars *g*, rods *b*, and block *a*, maintain a constant lateral pressure upon the piece and prevent its springing away from the gage B, thus obviating the necessity of using the hand for that purpose. The block *a* being at all times near to and extending above the cutting tool, prevents the hand of the operator from coming in contact with the same, or the falling of anything upon said tool, thus insuring greater safety to the operator. So, also, when the piece passes the tool the extreme rear end of said piece is pinched between the gage B and the block *a*, thus preventing the tool from catching hold of said piece and throwing it forcibly back toward the operator.

The casing *d* furnishes bearings for the rods *b*, and also protects the inclosed parts from dust and other obstructions, and also prevents anything falling upon them to their injury.

What I claim and wish to secure is as follows:

In combination with a rotary wood-working tool and a gage to guide the piece to be operated upon, a block having a chamber adapted to partially inclose said tool and attached to rods supported in adjustable bearings, said rods provided with collars and springs inclosed within a casing, substantially as described.

NICHOLAS STALTER.

Witnesses:

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