(No Model.) 2 Sheets—Sheet 1.

G. C. JAMES.

MACHINE GAGE.

No. 380,683. Patented Apr. 10, 1888.

Fig. 1.

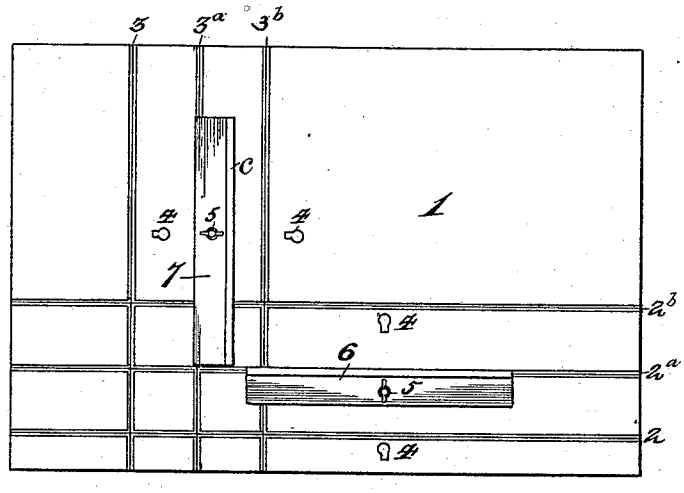


Fig. 2.

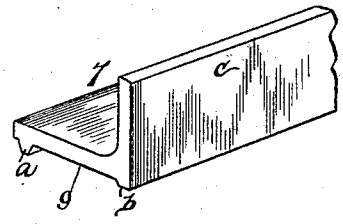


Fig. 3.

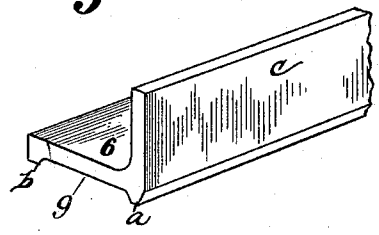


Fig. 5.

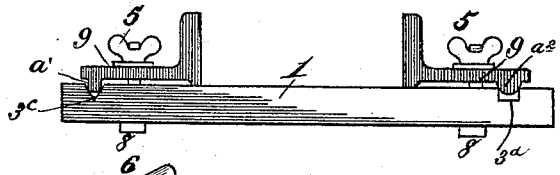
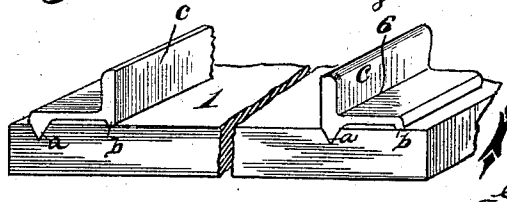


Fig. 4.



Attest.

J. Watson Sims.

Otto Engel.

Inventor

George C. James

by Wood & Boyd

his Attorneys

N. PETERS, Photo-Lithographer, Washington, D. C.

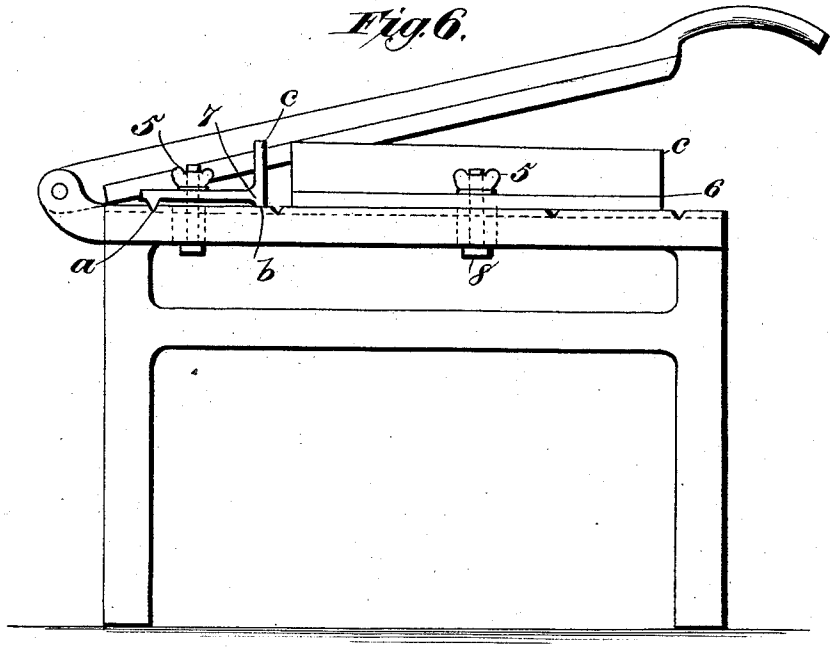
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Fig. 6.



Attest.
J. Watson Sims.
Otto Engel.

Inventor.
George C. James.
by Wood & Boyd.
his Attorneys &c

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

GEORGE C. JAMES, OF CINCINNATI, OHIO.

MACHINE-GAGE.

SPECIFICATION forming part of Letters Patent No. 380,683, dated April 10, 1888.

Application filed May 6, 1887. Serial No. 237,348. (No model.)

To all whom it may concern:

Be it known that I, GEORGE C. JAMES, a citizen of the United States, residing at Cincinnati, Hamilton county, Ohio, have invented certain new and useful Improvements in Guides for Paper-Cutting and other Machines, of which the following is a full, clear, and exact specification.

This invention has for its object to provide a novel guide and means for adjusting it relatively to the cutting-knife of a paper-cutter or other machine; and to such ends the invention consists in the novel construction and combination of devices hereinafter described and claimed, reference being made to the accompanying drawings, in which—

Figure 1 is a plan view of a table provided with my invention; Fig. 2, a broken perspective view showing one form of guide; Figs. 3 and 4, similar views showing modifications in the construction of the guides; Fig. 5, a detail view showing other modifications in the guides and the grooves in the table, and Fig. 6 an elevation of part of a paper-cutting machine with my invention applied thereto.

In order to enable those skilled in the art to make and use my invention, I will now describe the same in detail, referring to the drawings, wherein—

The numeral 1 indicates the table, having a series of longitudinal grooves, 2 2^a 2^b, and a series of transverse grooves, 3 3^a 3^b, which intersect the longitudinal grooves. This table is provided adjacent to each groove with a key-hole slot, 4. I employ two guides, 6 and 7, each of a right-angle V-bar, the one, 6, being provided longitudinally along one edge with a V-shaped or approximately V-shaped flange, *a*, which rests in any one of the longitudinal grooves, and at its opposite edge with a bearing-flange, *b*, flat on its under surface to rest upon the surface of the table. As shown in Figs. 1, 2, and 5, the V-shaped or beveled flange *a* may be at the edge of the guide opposite the vertical face-plate *c*, to rest in the groove of the table; or, as shown in Fig. 3 and a part of Fig. 4, the V-shaped flange *a* may be directly beneath the vertical face-plate *c* of the guide. The guides are secured in place upon the table by the bolts 8, passing up through the slots 4 and the horizontal part 9 of the guide, and applying screw-nuts 5 to said bolts. The respective guides can be adjusted from groove to groove of the table by detaching the bolts and securing the guides in the desired grooves, as before explained. The grooves in the table may be V-shaped, as at 3^c, or square, as at 3^d, Fig. 5, and the flange *a*, which enters the groove, may be square, as at *a'*, Fig. 5, or rounded, as at a^2, Fig. 5. It is of importance to have the face-plates *c* of the guides come to the exact alignment required without gaging the guide to the true line desired, and this is accomplished in a simple and rapid manner by my invention.

The space between the flanges *a* and *b* is left vacant to avoid irregularities in the surface of the table and permit the guides to be firmly clamped in place with little friction. By varying the angle of the grooves in the table or the angles of the flanges *a* and screwing up the nut 5 the face-plate *c* can be inclined with reference to the plane of the table or be held in a plane directly at right angles to the plane of the table. It will be obvious that by slotting the guides longitudinally they can be adjusted lengthwise, if desired.

In Fig. 6 the guides are shown as applied to a paper-cutting machine; but I wish it to be understood that I do not confine myself thereto.

Having thus described my invention, what I claim is—

1. The combination, with a grooved table, of a right-angled guide composed of a vertical face-plate, *c*, and a horizontal part, 9, provided with a longitudinal flange, *a*, having inclined sides or their described equivalent engaging the groove in the table, and a clamping device for clamping said flange in the groove of said table, substantially as described.

2. The combination, with a grooved table, of a right-angled guide composed of a vertical face-plate, *c*, and a horizontal part, 9, provided at one edge with a bearing-flange, *b*, and at the other edge with a longitudinal V-shaped flange, *a*, or its described equivalent, engaging the groove in the table, and a clamping device for clamping said V-shaped flange in the groove of the table, substantially as described.

3. The combination of the grooved table having key-hole slots, the right-angled guide having its horizontal part provided with a V-

shaped flange, *a*, or its described equivalent, a bolt, 8, and a nut, 5, for clamping the flange in the groove of the table, substantially as described.

4. The combination, with the grooved table, of a right-angled guide composed of a vertical face-plate and a horizontal part provided along the opposite edges with two longitudinal flanges, *a b*, one provided with inclined sides or their described equivalent, with a vacant space between the flanges, and a clamping device for clamping the guide in place, substantially as described.

In testimony whereof I have hereunto set my hand.

GEO. C. JAMES.

Witnesses:
S. W. SMITH, Jr.,
CHAS. H. STEPHENS.