

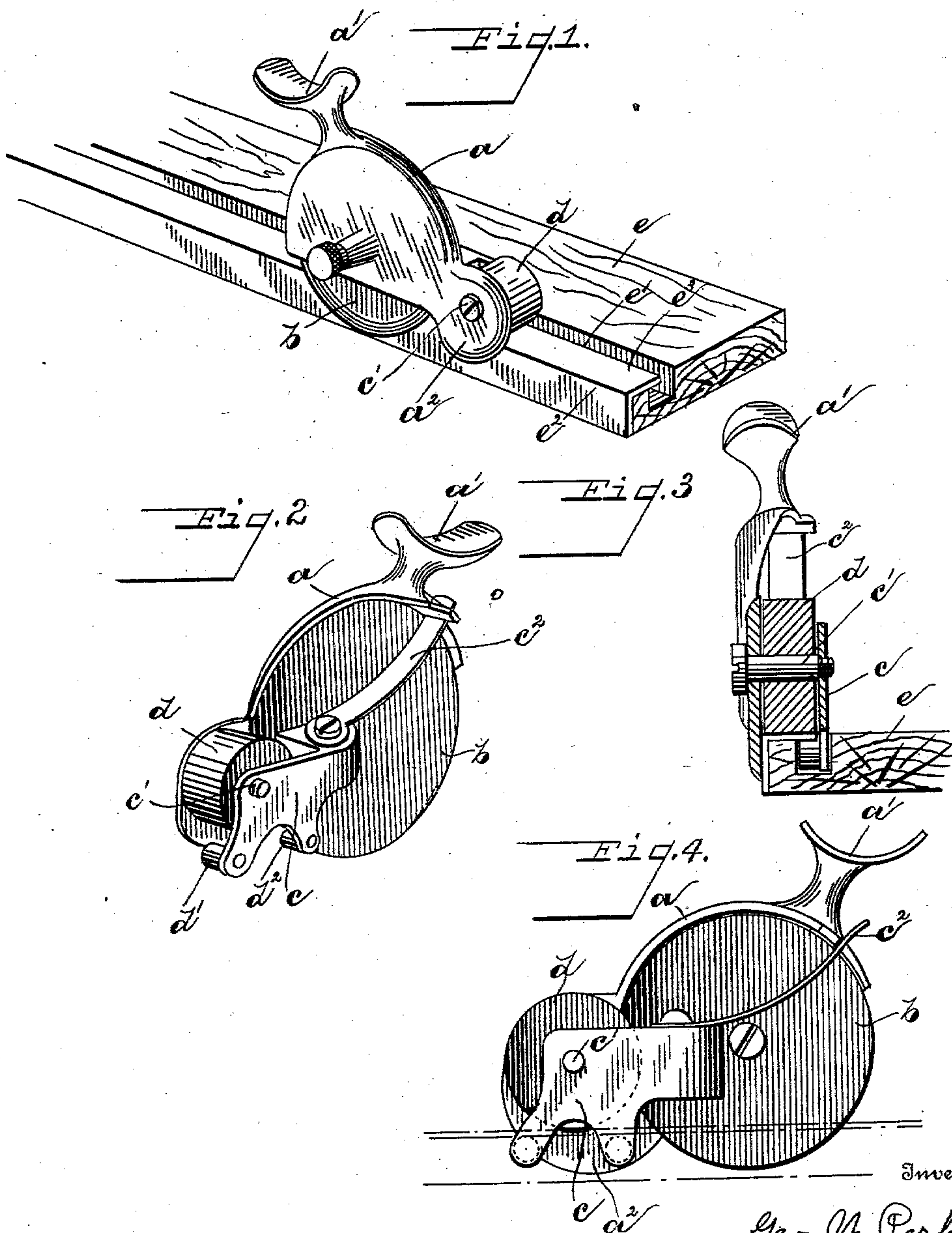
No. 745,517.

PATENTED DEC. 1, 1903.

G. W. PERKS.
PAPER CUTTER.

APPLICATION FILED MAY 13, 1903.

NO MODEL.



Inventor

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UNITED STATES PATENT OFFICE.

GEORGE W. PERKS, OF SPRINGFIELD, OHIO, ASSIGNOR TO WEBSTER & PERKS TOOL CO., OF SPRINGFIELD, OHIO, A PARTNERSHIP.

PAPER-CUTTER.

SPECIFICATION forming part of Letters Patent No. 745,517, dated December 1, 1903.

Application filed May 13, 1903. Serial No. 156,916. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. PERKS, a citizen of the United States, residing at Springfield, in the county of Clark and State of Ohio, have invented certain new and useful Improvements in Paper-Cutters, of which the following is a specification.

My invention relates to paper-cutters; and the object of the invention is to provide a simple and effective paper-cutter which can be economically constructed and effective in operation.

In the accompanying drawings, Figure 1 is a perspective view showing a cutter embodying the invention mounted on a straight-edge ready for use. Fig. 2 is a perspective view of the same detached and shown from the rear. Fig. 3 is a sectional view, and Fig. 4 is a side elevation.

Like parts are represented by similar letters of reference in the several views.

In constructing my improved cutter I employ a main frame *a*, in which is mounted in a suitable manner a rotary cutter *b*, the frame *a* being provided with a handle *a'* at one end and with a downwardly-projecting flange *a²* at the other.

A straight-edge *e* is provided, (shown in Fig. 1,) having a groove *e'*. The straight-edge is also preferably provided with a metal corner-piece *e²*, which forms a wearing and guiding surface, and this metal corner-piece *e²* projects over a portion of the groove, as shown at *e³*.

To the rear of the main frame of the cutter is attached a guide or gage block *c* through the medium of a stud *c'*, and mounted on the stud *c'* is a roller *d*. The gage-block is also extended downwardly and has secured there-
to beneath the roller *d* guiding-rolls *d'* and *d²*, which operate in connection with the flanged part *e³* of the straight-edge to support and guide the frame. A forwardly-projecting flat spring *c²* is attached to the gage-block *c*, as shown, and extends forwardly and upwardly and contacts with a lug or projection on the frame.

The operation of the device it is thought will be readily understood. The gage part of the block is slipped into the groove of the straight-edge with the roller *d* on top thereof

and the rollers *d'* and *d²* under the overhanging flange. A downward pressure on the handle *a'* will cause the frame to tilt on the stud *c'*, so as to bring the knife in contact with the material to be cut, this downward movement operating against the spring *c²*, which will return the frame and knife to normal position. By employing the rollers *d*, *d'*, and *d²* a very close adjustment can be secured and at the same time obviate the friction usually resulting from the close fitting of the parts on the straight-edge. By having the gage-block connected to the frame solely by the stud *c'*, which also forms the arbor for the roller *d*, I provide an extremely simple construction and dispense with the multiplicity of parts and at the same time produce a very effective and easily-operated cutter.

Having thus described my invention, I claim—

1. A main frame and a rotary cutter mounted thereon, a gage-block, a roller between said frame and gage-block, a stud for connecting said frame and gage-block through said roller, and a spring between said gage-block and frame, substantially as specified.

2. The combination with the frame and rotary cutter, of the gage-block, a spring attached thereto, a projection on said frame contacting with said spring, a roller mounted on a stud which also serves to connect said frame and gage-block, and auxiliary rollers below said main roller, substantially as and for the purpose specified.

3. The combination with the recessed frame, of a rotary cutter mounted therein, a depending flange on said frame, a recessed gage-block, a roller mounted in said recessed gage-block, a stud passing through said roller and forming a connection for said gage-block and frame, a forwardly-projecting spring secured to said gage-block and contacting with said frame, and auxiliary rollers also mounted on said gage-block below said main roller, substantially as specified.

In testimony whereof I have hereunto set my hand this 8th day of May, A. D. 1903.

GEORGE W. PERKS.

Witnesses:

PERCY NORTON,
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