

C. R. WEBER.
PAPER TRIMMER.
APPLICATION FILED NOV. 18, 1904.

Fig 1

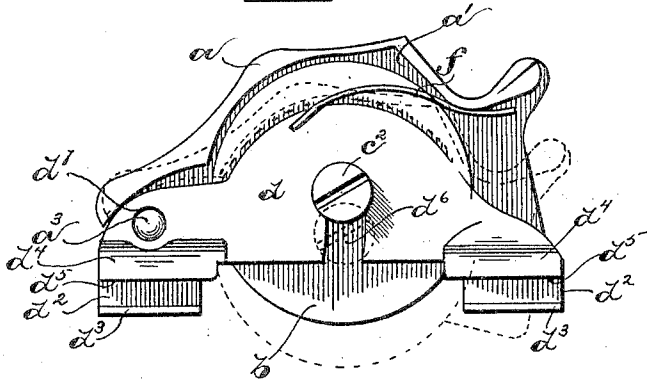


Fig. 2.

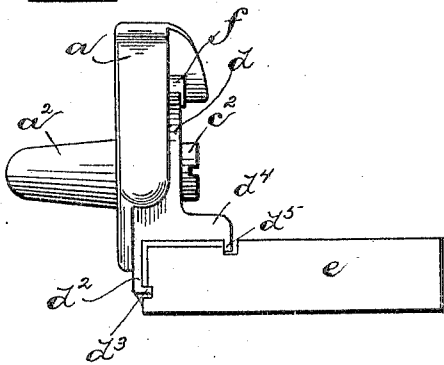


Fig. 3

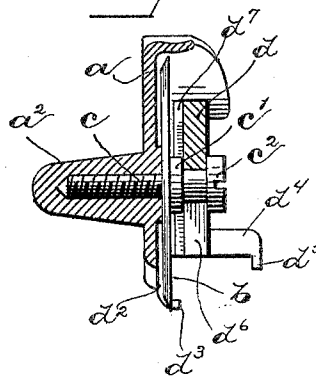
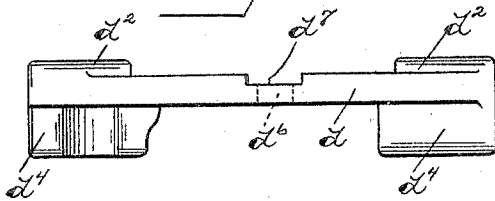


Fig. 4



Witnesses
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UNITED STATES PATENT OFFICE.

CHARLES R. WEBER, OF SPRINGFIELD, OHIO, ASSIGNOR TO THE RIDGELY TRIMMER COMPANY, OF SPRINGFIELD, OHIO, A CORPORATION OF WEST VIRGINIA.

PAPER-TRIMMER.

No. 802,721.

Specification of Letters Patent.

Patented Oct. 24, 1905.

Application filed November 18, 1904. Serial No. 233,234.

To all whom it may concern:

Be it known that I, CHARLES R. WEBER, 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-Trimmers, of which the following is a specification.

My invention relates to improvements in paper-trimmers, and particularly to a device of that character adapted to trim the edges of wall-paper; the object of my invention being to provide a trimmer which can be cheaply built and which will be simple and effective in operation.

My invention consists in the constructions and combinations of parts hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a rear elevation of a device embodying my invention. Fig. 2 is an end view. Fig. 3 is a vertical sectional view. Fig. 4 is a top view of the gage.

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

In the said drawings, *a* represents the main frame of the tool, formed with a recess *a'* on its rear side to receive a cutting-disk *b* and having its upper side suitably formed to provide a convenient means for grasping the tool in operation. The cutting-disk *b* is secured to the frame by means of an arbor *c*, screwed into a forwardly-projecting boss *a²* on said frame, the disk being held in position against a small inwardly-projecting boss on said frame by means of a collar *c'*, formed on said arbor. The arbor is extended rearwardly beyond the collar for a suitable distance and provided with a head *c²*, which is grooved, as shown, to receive a screw-driver.

The forward end of the frame is provided with a rearwardly-projecting pin *a³*, which projects into a recess or perforation *d'* of a gage *d* to form a pivotal connection between the frame and gage. If desired, the said pin may be formed in the nature of a screw and screwed into the frame with its head bearing against the side of the gage, although a simple pin or stud, as shown, will answer the purpose.

The forward side of the gage is provided at each end with a downwardly-projecting flange *d²*, having a rearwardly-projecting lip *d³* to engage in a groove in the straight-edge *e* in connection with which the cutting-tool is used.

The rear side of the gage has also at each end a rearwardly-projecting flange *d⁴*, having a downwardly-projecting lip *d⁵* to engage in a groove on the upper surface of said straight-edge.

Extending from the lower side of the gage to a suitable point is a slightly-curved slot, through which is extended the arbor *c* when the parts of the tool are assembled, the gage being provided with a recess *d⁷*, in which the collar *c'* fits and slides.

Between the gage and frame is inserted a spring *f*, adapted to normally hold the frame in inoperative position, the frame being depressed against the tension of the spring to bring the knife in working position, as shown by dotted lines in Fig. 1. This spring is secured to the gage in any suitable manner and bears against the under side of the projecting top portion of the frame, as shown.

In paper-trimmers of this class in which a knife-carrying frame or head is employed movably connected with a gage which engages with and slides along a straight-edge it is essential that means be employed to hold the said movable frame or head in proper alignment with said gage, so that the revolving knife will always run parallel with the straight-edge. In tools of this character as heretofore constructed this has been accomplished by providing devices at the rear of the frame and gage such as will hold the frame against lateral or wobbling movement with reference to the gage, but at the same time permit it to swing or move vertically to bring the knife in working position.

By the construction which I have described I am enabled to dispense with these additional parts and to utilize the arbor or knife support not only to support the knife, but also to hold the frame and gage in proper working relation with each other, thus affording a more simple and cheaper construction. By this construction also it is unnecessary to provide a stop for the frame in its upward movement with reference to the gage, the contact of the arbor with the gage at the upper end of the slot answering this purpose.

Having thus described my invention, I claim—

1. In a paper-trimmer, a gage, a slotted opening therein, a frame pivoted to said gage, a knife-carrying arbor secured to said frame

and extending through the slotted opening of said gage, and a spring between said gage and frame, substantially as specified.

2. In a paper-trimmer, a gage, a frame pivoted thereto, a knife-carrying arbor secured to said frame, said arbor being extended through said gage and provided with means to prevent lateral movement of said gage with reference to said frame, and a slotted opening in said gage to permit a vertical swinging movement of said frame, substantially as specified.

3. In a cutting-tool, a gage provided with engaging parts for a straight-edge, a slotted opening in said gage, a frame pivoted to said gage, a spring between said frame and gage, a knife-carrying arbor secured to said frame, said arbor being extended through the slotted opening of said gage, and means on said arbor to assist in holding said frame against lateral movement with reference to said gage, substantially as specified.

4. In a cutting-tool, a gage provided with engaging parts for a straight-edge, a slotted opening in said gage, a frame pivotally connected to said gage, an arbor secured to said frame, a revoluble knife mounted on said arbor, said arbor being extended through the slotted opening in said gage and provided with means for holding said frame and gage

in proper alinement with each other to cause said knife to run parallel with said straight-edge, substantially as specified.

5. In a cutting-tool, a frame, an arbor secured thereto, a knife mounted on said arbor, a gage having engaging devices for a straight-edge, said gage being provided with a slotted opening, said arbor being extended through said slotted opening and provided with means to assist in holding said frame and knife in proper working relation with said gage.

6. In a cutting-tool, a frame, an arbor secured thereto, a knife mounted on said arbor, a gage having engaging devices for a straight-edge, said gage being provided with a slotted opening, said arbor being extended through said slotted opening and provided with means to hold said frame and knife in proper working relation with said gage, the upper end of said slot being adapted to form a stop for said arbor to limit the upward movement of said frame and knife, and a spring between said gage and frame, substantially as specified.

In testimony whereof I have hereunto set my hand this 12th day of November, A. D. 1904.

CHARLES R. WEBER.

Witnesses:

CHAS. I. WELCH,
CLIFTON P. GRANT.