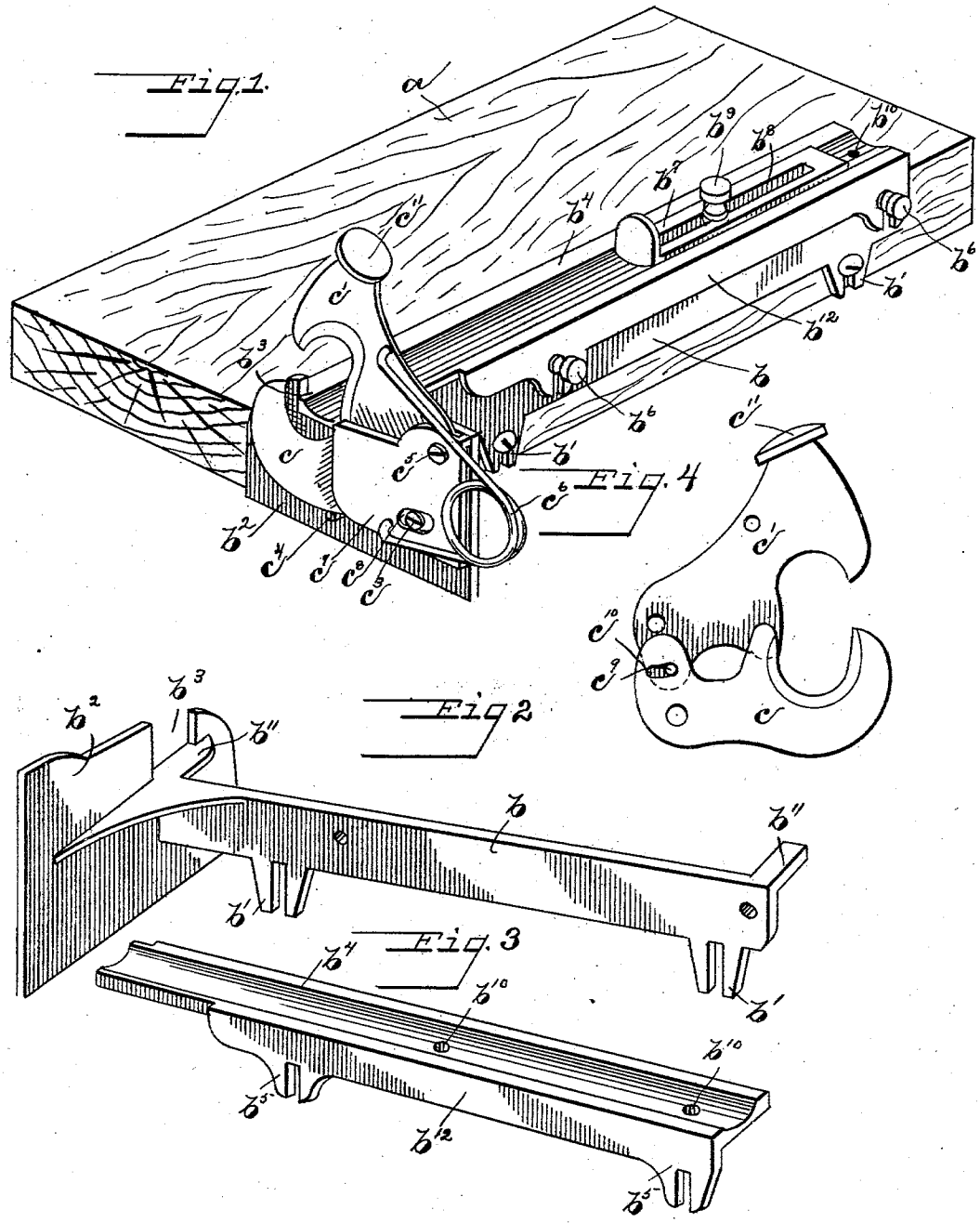
No. 740,693. PATENTED OCT. 6, 1903.

M. E. PUGH.

CIGAR TRIMMER.

APPLICATION FILED APR. 22, 1903.

NO MODEL.



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No. 740,693. Patented October 6, 1903.

UNITED STATES PATENT OFFICE.

MILTON E. PUGH, OF DAYTON, OHIO, ASSIGNOR TO EDWARD RETTICH, OF GERMANTOWN, OHIO, AND GEORGE BERGER, OF CINCINNATI, OHIO.

CIGAR-TRIMMER.

SPECIFICATION forming part of Letters Patent No. 740,693, dated October 6, 1903.

Application filed April 22, 1903. Serial No. 153,774. (No model.)

To all whom it may concern:

Be it known that I, MILTON E. PUGH, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Cigar-Trimmers, of which the following is a specification.

My invention relates to cigar-trimmers.

In the manufacture of cigars after they are rolled it is necessary to cut them to a uniform length.

The object of my invention is to provide a trimmer for this purpose simple and efficient in operation and that can be adjusted to the various sizes and shapes of the cigars to be trimmed.

My invention consists of the constructions and combinations hereinafter described, and set forth in the claims.

In the accompanying drawings, which form a part of this specification, Figure 1 represents a trimmer embodying my invention. Fig. 2 shows the main frame; Fig. 3, the cigar-supporting frame, and Fig. 4 the cutters. Like parts are represented by similar letters of reference in the several views.

In the drawings, *a* represents a board to which the main frame *b* of the cigar-trimmer is secured in any suitable manner; but I preferably attach the same by screws extending through bifurcated lugs *b'*, so that the machine can be readily removed from the board or table without unscrewing the screws from the same. Said main frame is provided at one end thereof with a laterally-extending portion b^2, having an opening b^3 therein. A grooved plate b^4 rests on the projections b^{11} of the main frame, with one end extending through the opening b^3 and terminating at the outside face of the portion b^2 of the frame, where the cutters, which will be hereinafter described, are located. Said grooved plate b^4 is provided on one side thereof with a downwardly-projecting flange b^{12}, which is adapted to lie adjacent to the main frame and is provided with bifurcated projections b^5, through which thumb-screws b^6 extend into screw-threaded openings in the main frame. The thumb-screws enable the operator to not only secure the support to the frame; but it will be seen the construction is such that the support may be inclined from the horizontal and held at the desired inclination to suit the shape of the cigar. A slide b^7, having a slot b^8, through which a thumb-screw b^9 extends into either one of the two screw-threaded openings b^{10} in the support, forms the means of adjusting the cigar to the cutters, so as to cut the cigars to a uniform length.

On the outer surface of the portion b^4 of the main frame I secure two shearing plates or cutters *c* and *c'*, the cutting portions of which are semicircular in form and oppositely disposed to each other, so that when operated they will form a circle about the cigar and simultaneously cut the cigar from all sides to its center, and thereby avoid crushing or damaging the cigar. The cutter *c* is pivoted at c^3 to the portion b^2 of the main frame and normally rests upon a stop c^4, with its semicircular cutting portion below the opening b^3, and the cutter *c'* is pivoted at c^5 and is normally held in an open position by a spring c^6, one end of which is secured to the cutter and the other end to a guard-plate c^7. Said plate may be secured to the portion b^2 of the frame in any suitable manner; but I have shown the head of the pivot c^5 engaging same, and the pivot c^3 is accessible through an opening c^8 in the guard-plate.

A pin c^9 in the cutter *c'* operates in a slot c^{10} in the cutter *c*. When the cutters are in their open position, the pin c^9 is at one end of the slot, as shown in Fig. 4, and the cutter *c'* is moved independently of the cutter *c* until said pin engages the other end of the slot, and both cutters then move, the one passing the other to cut off the end of the cigar. It will be seen the construction is such that when the cutters are in open position there is ample room for the placing of the cigar to be cut, the slot c^{10} permitting the cutter *c'* to attain cutting position before the cutter *c* begins to move, and the cigar is cut from all sides toward its center, as hereinbefore described. The cutter *c'* is provided with an operating head or handle c^{11}, the depressing of which operates the cutters.

The slide b^7 being adjusted in its relation to the cutters to the required length of the cigar to be cut, the cigar is placed in the

groove of the plate b^4, with its end extending through the opening b^3 and beyond the cutters, and as cigars vary in shape the supporting-plate b^4 can be given the necessary inclination to hold them in proper position for cutting, the thumb-screws b^6 holding the plate in its adjusted position. When the cigar is in position, the cutters are operated as hereinbefore described.

Having thus described my invention, I claim—

1. In a machine such as described, the combination of a pair of cutters pivoted independently of each other and a connection between said cutters adapted to permit a partial movement of one of said cutters independent of the other, substantially as specified.

2. In a machine such as described, the combination of a pair of cutters, pivoted independently of each other, the cutting portions of which are adapted to encircle the article to be trimmed, and a connection between said cutters adapted to permit a partial movement of one of said cutters independent of the other, substantially as specified.

3. In a machine such as described, the combination with a frame, of a pair of cutters, pivoted independently of each other to said frame, a slot in one of said cutters and a pin in the other extending into said slot to permit a partial movement of one of said cutters independent of the other and then engage and move the same, substantially as and for the purpose specified.

4. In a machine such as described, the combination with a frame, a pair of cutters pivoted independently of each other to said frame, a slot in one of said cutters and a pin in the other extending into said slot to permit a partial movement of one of said cutters independent of the other and then engage and move the same, and a spring to normally hold said cutters in open position, substantially as specified.

5. In a machine such as described, the combination with a frame and a support for the article to be trimmed, of a pair of cutters pivoted independently of each other to said frame, a connection between said cutters, a spring connected to one of said cutters to normally hold said cutters in open position and a stop on said frame to arrest the other cutter and hold said cutters in a fixed position in their relation to said support against the tension of said spring.

6. In a machine such as described, the combination with a frame and cutters, of a support for the article to be trimmed, a slide on said support adapted to adjust said article longitudinally in its relation to said cutters, and means to fix said support at an inclination to said cutters, substantially as specified.

In testimony whereof I have hereunto set my hand this 17th day of April, A. D. 1903.

MILTON E. PUGH.

Witnesses:
HARRY G. DAVIS,
JOHN M. NUTT.