

No. 641,855.

Patented Jan. 23, 1900.

A. A. GLASER.
ADJUSTABLE CUTTER.
(Application filed Sept. 27, 1899.)

(No Model.)

Fig. 1.

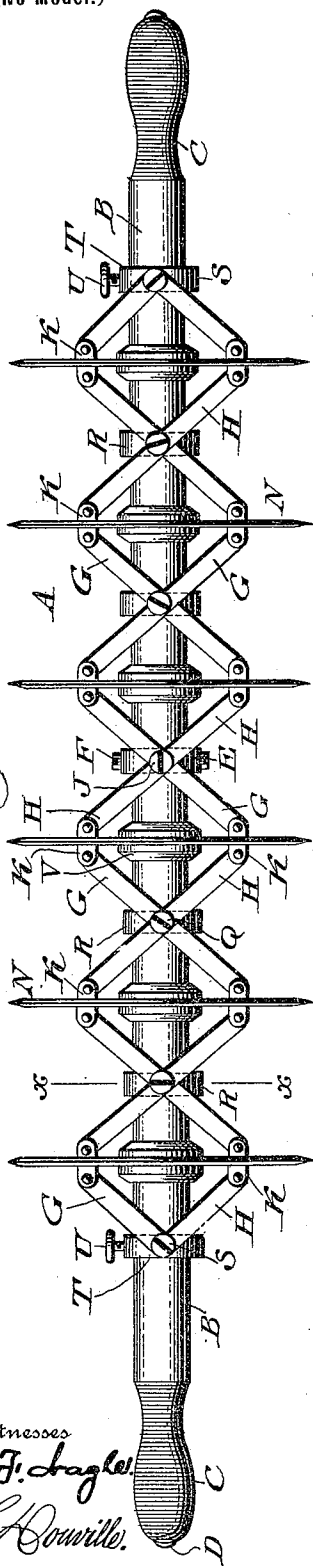


Fig. 2.

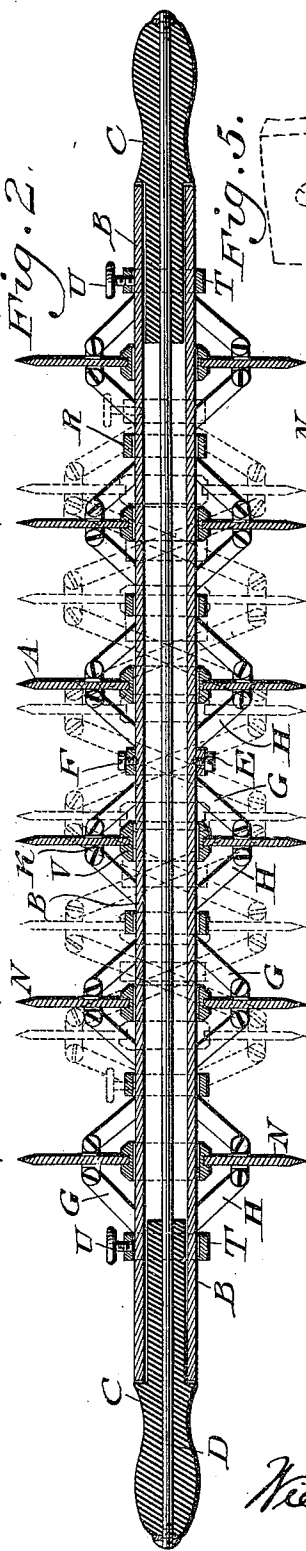


Fig. 3.

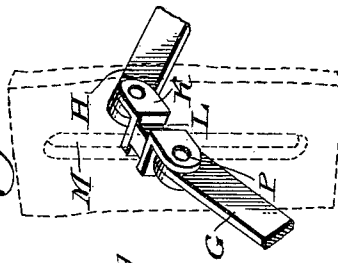
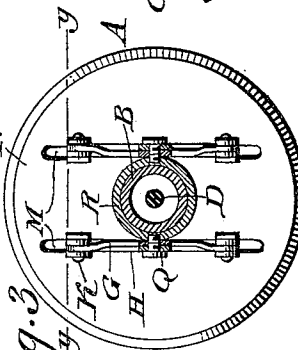
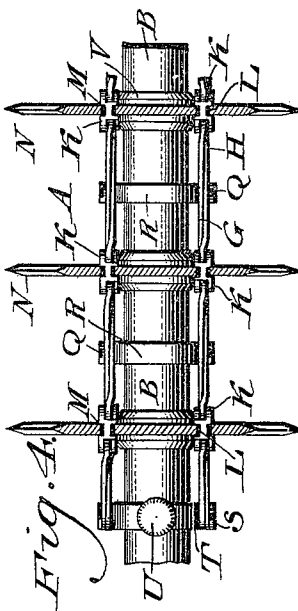


Fig. 4.



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UNITED STATES PATENT OFFICE.

ADOLPH A. GLASER, OF PHILADELPHIA, PENNSYLVANIA.

ADJUSTABLE CUTTER.

SPECIFICATION forming part of Letters Patent No. 641,855, dated January 23, 1900.

Application filed September 27, 1899. Serial No. 731,820. (No model.)

To all whom it may concern:

Be it known that I, ADOLPH A. GLASER, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Adjustable Cutters, which improvement is fully set forth in the following specification and accompanying drawings.

My invention relates to an adjustable cutter; and it consists of a mandrel having mounted thereon a plurality of cutters or knives which are free to move longitudinally upon said mandrel and being connected with each other by toggle-levers or other similar mechanism, so that all the knives can be adjusted toward and away from each other in unison.

It further consists of novel details of construction, all as will be hereinafter fully described, and particularly pointed out in the claims.

Figure 1 represents a plan view of an adjustable cutter embodying my invention. Fig. 2 represents a longitudinal sectional view of Fig. 1. Fig. 3 represents a section on line *x x*, Fig. 1. Fig. 4 represents a section on line *y y*, Fig. 3. Fig. 5 represents an enlarged perspective view of a portion of the toggle mechanism.

Similar letters of reference indicate corresponding parts in the figures.

Referring to the drawings, A designates an adjustable cutter, the same consisting of a mandrel B, having the handles C secured to either end thereof and held in position by the rod D.

E designates a collar which is immovably secured to substantially the central portion of the tube B by means of the screws F or similar fastening devices. On the mandrel are mounted toggle-levers G and H, which are pivoted to each other and to the collar E and sleeves R, the central levers being connected with said collar E by the pin or screw J. The extremities of the levers G and H are pivotally attached, as at P, to the ends of the ears K, the members of the pairs of which are connected by necks L, which slide freely in slots M in the circular cutters N, it being noticed that the sleeves R are movably mounted on the mandrel B.

The arrangement of the toggle-levers is the

same on each side of the stationary collar E and the movable collars R until the extremity of the instrument is reached, at which point the levers G and H are secured in position by the pin S upon the movable collar T, which is provided with the set-screws U, whereby said collar can be held in any desired position. All the knives or disks N are mounted upon sliding collars V and are capable of being moved in either direction upon the mandrel B, as is evident.

It will be understood that I employ two sets of toggle-levers, one on each side of the mandrel B, whereby a positive and uniform sliding movement of the knives or cutters in the desired direction is secured under all conditions.

The operation is as follows: Assuming the parts to normally appear as seen in Figs. 1 and 2, it will be apparent that when the set-screws U are tightened the knives or cutters are immovable with respect to the mandrel B or to each other. When it is desired to increase or decrease the distance between the knives, the same is effected by loosening the screws U and adjusting the collars T in the desired direction, wherefrom it will be readily seen that by reason of the intermediate connections the knives N can be moved toward or away from each other, as desired, so as to produce wide or narrow cuts, according to requirements.

To use the implement, the operator grasps it in each hand and imparts the proper movement thereto, it being especially adapted for cutting plastic materials, such as dough, cement, candy, &c.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In an adjustable cutter, a mandrel having a plurality of knives mounted thereon, and connections mounted on said mandrel and common to said knives, whereby the latter are simultaneously adjustable according to requirements.

2. In an adjustable cutter, a mandrel, a plurality of knives mounted thereon, and toggle-levers having their ends connected with adjacent knives whereby the latter are simultaneously adjustable.

3. In an adjustable cutter, a mandrel, a

plurality of knives mounted thereon, toggle-levers pivotally connected with said knives and means for locking the parts in the desired position.

5 4. In an adjustable cutter, a mandrel, a plurality of knives mounted thereon, collars intermediate said knives mounted on said mandrel and toggle-levers common to said knives and said intermediate collars.

10 5. In an adjustable cutter, a mandrel, a stationary collar mounted thereon, a plurality of knives movably mounted on said mandrel, a plurality of collars intermediate said knives and toggle-levers common to said stationary
15 and movable collars and common to said knives.

20 6. In an adjustable cutter, a mandrel, a stationary collar mounted thereon, toggle-levers pivoted to each other and located on either side of said collar, a plurality of knives mov-

ably mounted upon said mandrel and a plurality of collars intermediate said knives, said toggle-levers being common to said stationary and movable collars and to said knives.

7. In an adjustable cutter, a mandrel, a stationary collar secured thereto, a series of
25 blades or knives adjustably mounted on said mandrel, slots oppositely arranged in said knives, guides in said slots, a series of toggle-levers arranged on either side of said mandrel and pivotally secured to said guides,
30 movable collars intermediate said knives, connections common to said collars and levers, and means for locking the latter in the desired position.

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