(No Model.) 2 Sheets—Sheet 1.

M. S. HERSHEY.

MACHINE FOR CUTTING CANDY.

No. 532,554. Patented Jan. 15, 1895.

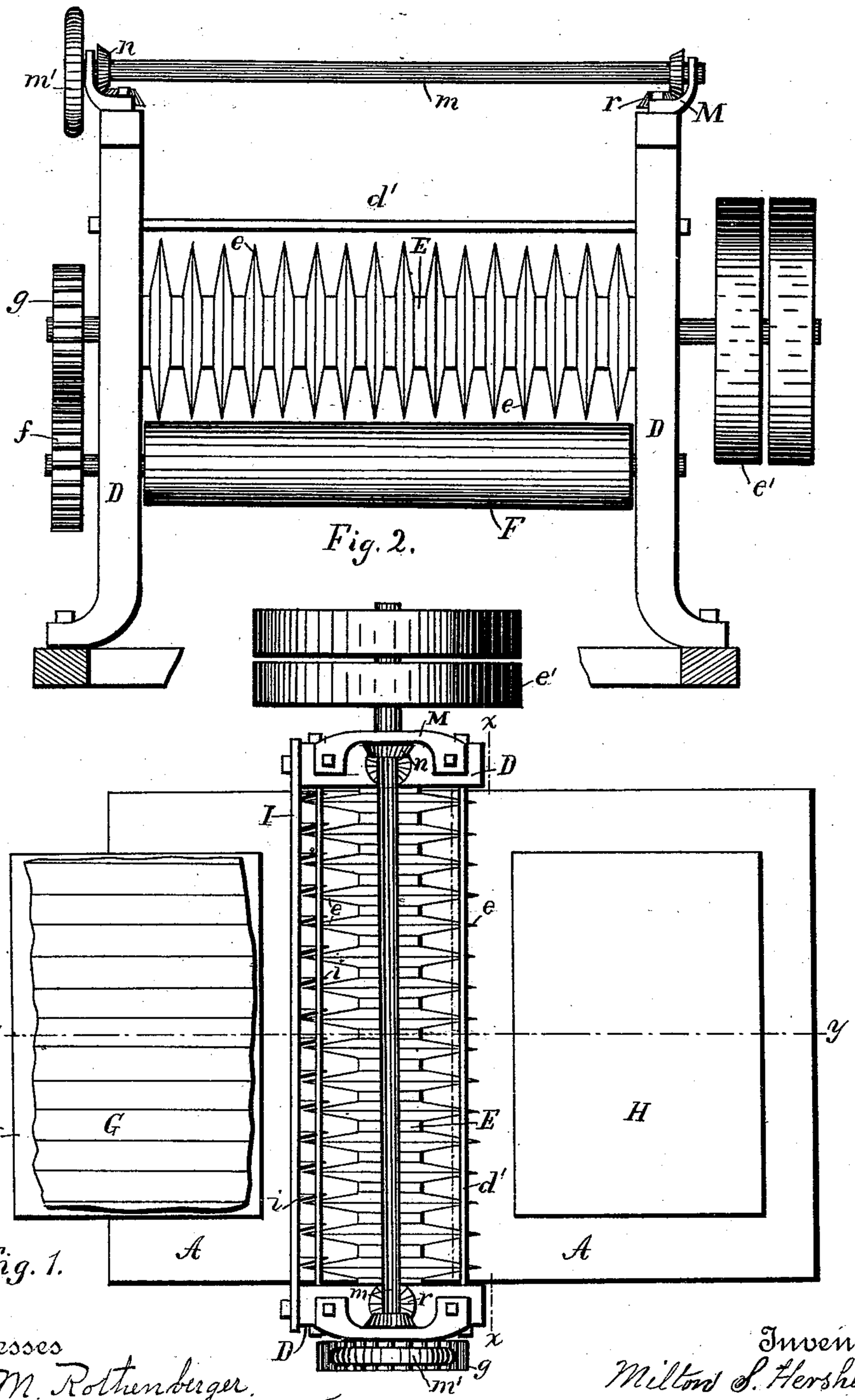

Fig. 2.

Fig. 1.

Witnesses
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Geo. A. Lane

Inventor
Milton S. Hershey

By Attorney Wm. R. Gerhart

(No Model.)

2 Sheets—Sheet 2.

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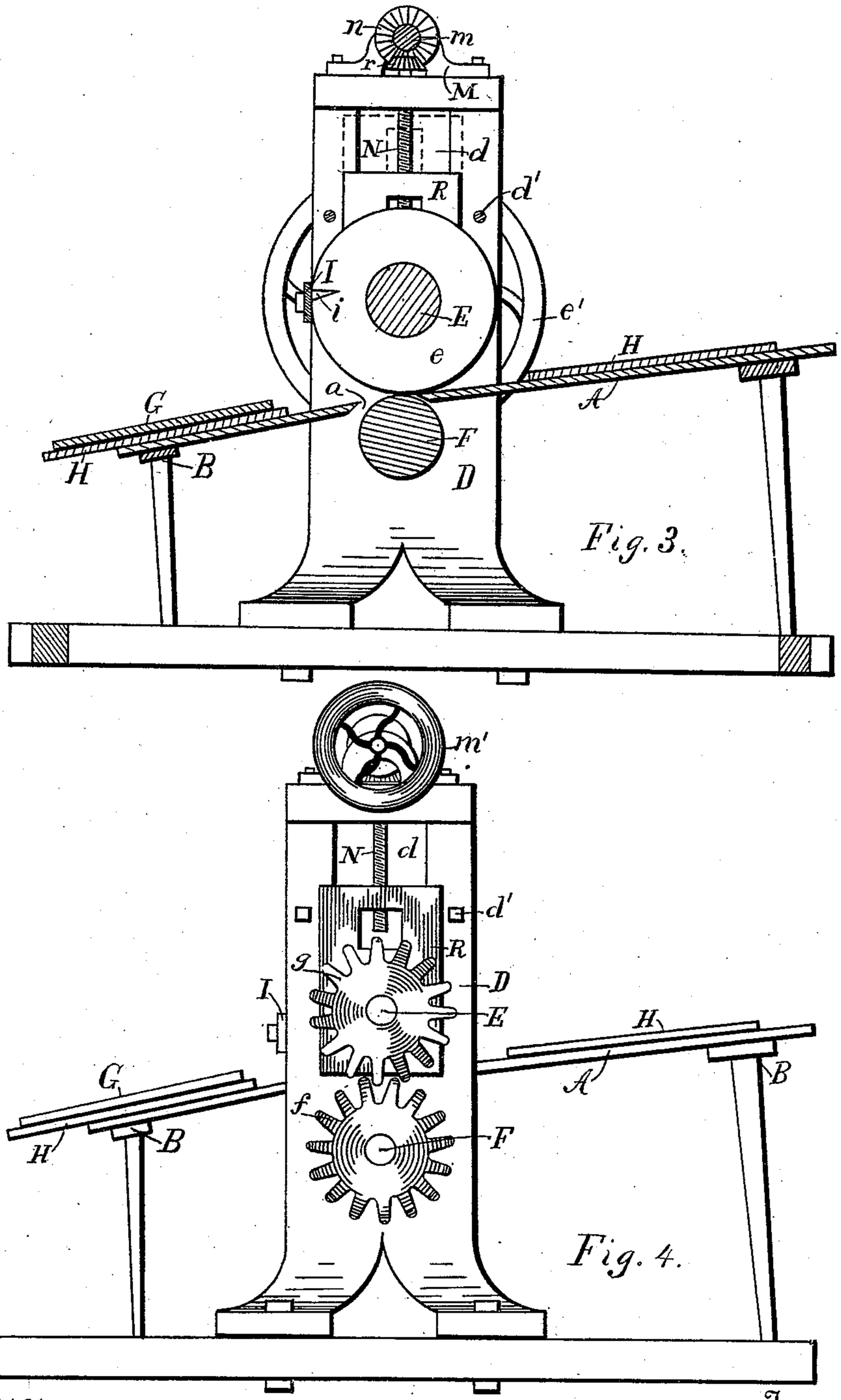

Fig. 3.

Fig. 4.

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UNITED STATES PATENT OFFICE.

MILTON S. HERSHEY, OF LANCASTER, PENNSYLVANIA.

MACHINE FOR CUTTING CANDY.

SPECIFICATION forming part of Letters Patent No. 532,554, dated January 15, 1895.

Application filed May 3, 1893. Serial No. 472,836. (No model.)

To all whom it may concern:

Be it known that I, MILTON S. HERSHEY, a citizen of the United States, residing in Lancaster, in the county of Lancaster and State of Pennsylvania, have invented certain Improvements in Machines for Cutting Candy, of which the following is a specification.

This invention relates to improvements in that class of devices used for cutting candy, caramels and similar products; and the object of the invention is to sub-divide sheets of the product into parts suitable for use.

The invention consists in the construction and combination of the various parts, as hereinafter fully described, and then specifically pointed out in the claims.

In the accompanying drawings, which form a part of this specification, Figure 1 is a top plan view of the cutter. Fig. 2 is a transverse view on the line *x—x*, Fig. 1; Fig. 3, a longitudinal vertical section of the cutter on line *y—y* of Fig. 1, and Fig. 4 a side elevation of the same.

Similar letters indicate like parts throughout the several views.

Referring to the details of the drawings, A indicates a stationary table having a transverse slot or opening *a;* and B, the frame supporting said table. The table may be inclined from the feed to the delivery end thereof or it may be level. No stress is laid upon the inclination of the upper surface of the table with reference to a horizontal plane.

D represents upright posts having vertical slots *d* therein. In the lower portion of posts D and above the slot or opening in table A there is journaled a blade-shaft E, having rigidly affixed thereon annular cutting blades *e*, spaced to cut any matter passing between them into desirable strips or parts. Immediately below said opening *a* there is also journaled in the posts D a plain roller F. On one end of blade-shaft E there is keyed a pulley wheel *e'*, and on the opposite end of said blade-shaft E there is a cog-gear *g*, meshing with a similar cog-gear *f* on the roller F. These rollers E and F, being thus geared their meeting surfaces revolve in the same direction. By this construction anything caught between them is forced or drawn through the intervening space. When the sheets of candy or caramels G are to be forced between said blade shaft E and roller F, they are placed upon a flexible plate or pad of felt, rubber, blotting paper or any sheet of material, H, that would answer the same purpose, and, the end of said plate or pad being inserted between said blade-shaft E and roller F, is drawn beneath the blades *e* and the sheets of candy or caramels carried thereby properly cut.

The frictional contact of blades *e* with the pad is the result of thorough, clean, and continuous cuts in the sheets of material carried by said pad, as there can be no motion thereof other than that communicated to it jointly by the blades and roller, which are actuated positively by the same gear and as the nature of the pad permits the blades to bite into the same and insure the cutting of the material by the movement of said pad.

On the delivery side of blade-shaft E there is located a clearing bar I, which is connected with posts D, and has prongs *i* thereon extending inward between blades *e*. This bar prevents any of the divisions of the material into which the sheets G of the same may be cut from being carried around blade-shaft E.

Posts D are connected by horizontal brace-rods *d'*, and on the tops thereof are secured outwardly curved standards M, in which are journaled the ends of shaft *m*. Inside of said standards, rods N pass down through the top-plates of posts D and have their lower screw-ends engaging similarly threaded openings in the tops of vertically adjustable bearing-boxes R, in which the ends of blade-shaft E are journaled. Beveled pinions *r* are keyed to the upper ends of screw-rods N and mesh with bevel spur-wheels *n* on shaft *m*, on an extended end of which is a hand-wheel *m'*, whereby the elevation of blade-shaft E is adjusted to permit the passage beneath blade *e* of pads of various thicknesses and to take up the wear of said blades.

By my construction the successful application of the device through which is applied the frictional force required to move the pad carrying the material to be cut also necessitates the cutting of that material, thereby utilizing said device in a two fold manner and reducing the amount of machinery necessary for the purpose, as well as making a corresponding reduction in the friction to be

overcome and the cost of the more numerous parts otherwise necessary.

I do not limit myself to the details of construction herein shown and described, as it is obvious that many changes may be made therein without departing from the spirit of my invention.

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

1. The combination, with a slotted table, of a shaft having blades and journaled above said slot, a roller journaled below the slot, said shaft and roller being so geared that their adjacent parts move in the same direction, and a plate or pad adapted to be drawn between said blades and the roller by the frictional action thereof, for the purpose specified.

2. The combination, with a slotted table, of a shaft having blades and journaled above said slot, a roller journaled below the slot, said shaft and roller being so geared that their adjacent parts move in the same direction, and a flexible plate or pad adapted to be drawn between said blades and the roller by the frictional action thereof, for the purpose specified.

3. The combination, with a slotted table, of a vertically adjustable shaft having blades and journaled above the slot, a roller journaled below the slot, said shaft and roller being so geared that their adjacent parts move in the same direction, and a flexible plate or pad adapted to be drawn between the blades and the roller by the frictional action thereof, substantially as and for the purpose specified.

MILTON S. HERSHEY.

Witnesses:
JOHN W. APPEL,
WM. R. GERHART.