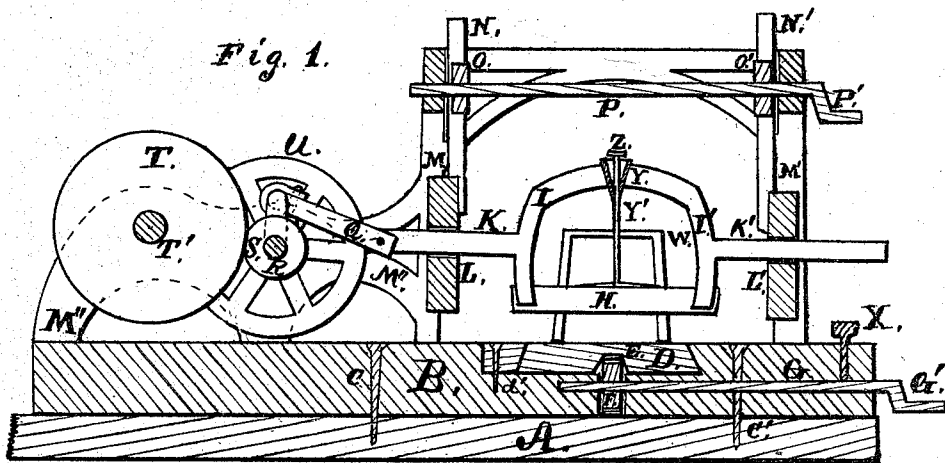


F. QUINN.

Improvement in Bread and Candy-Cutters.

No. 131,781

Patented Oct. 1, 1872.



Witness:
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UNITED STATES PATENT OFFICE.

FRANCIS QUINN, OF KEOKUK, IOWA.

IMPROVEMENT IN BREAD AND CANDY CUTTERS.

Specification forming part of Letters Patent No. 131,781, dated October 1, 1872.

To all whom it may concern:

Be it known that I, FRANCIS QUINN, of Keokuk, Iowa, have made a new and useful Improvement in Machine-Cutter for various household purposes—cutting candy, &c.—of which the following is a specification:

The object of this invention is to make a machine for cutting various substances—candy, bread, &c.—as desired.

This is made substantially as set forth herein, referring to the accompanying drawing, in which—

Figure 1 is a vertical section or elevation of the machine as in use.

The machine is set onto a table, A, and the bottom-board B is attached thereto firmly by screws C C'. There is a board, D, set into the bottom B flush with its surface. This is made to move freely endwise across the bottom, but not otherwise. On the under side of board D is a rack, E, with teeth, and into this fits a pinion, F, on a shaft, G, which is turned by hand-crank G' to move the board D across the bottom of the machine at right angles to the section of the drawing, Fig. 1. On the board D is placed the article to be cut and fixed thereon by any suitable means. In the case of candy it is attached by sticking while warm. The cutter H is arranged so as to play across the board D for cutting the article as desired. This cutter is a plain knife-blade, or it may have teeth, as a saw, if needed. The cutter is mounted in a frame, I I', in the manner of a saw. This frame is moved back and forth to do the cutting. The weight of the frame and connected parts assists in the cutting, but the frame can be forced down by additional weight or by force applied to it. The frame I I' has bars K K' projecting from it, and these pass through bearings in parts L L', so as to be held in place and guided in its work. These parts L L' are hung in bearings at their sides M M, so as to move freely up and down. To these gates are attached racks N N', and into these play the teeth of pinions O O', a shaft, P, which has a crank, P', on its end for turning, so as to raise or lower parts L L', as required, to introduce the article to be cut and to force the knife down on it in cutting. To the end of bar K is attached a

pitman-connection, Q, from a crank-shaft, R, so that when this shaft is turned the cutters move back and forth for cutting. The shaft R has a pinion, S, driven by a large wheel, T, which may be turned by hand, moving the cutters fast. The shaft R has a fly-wheel, U. One, two, or more cutters can be separately hung at the proper distance apart and be attached by separate cranks to the shaft R, so that they may cut in different directions at once. A frame, W, is arranged to hold the article to be cut, and is drawn to the side as the cutting advances. The board D with the article thereon is moved over as the cutting proceeds, to furnish material for new cuts. There is a set-screw, X, to hold the shaft G when the cutting is taking place, to prevent the board D from moving with the article cut.

On the frame I I' there is an oil-reservoir, Y, with a pipe, Y', running down onto the top of the cutter H to oil it when cutting, to assist the operation and to prevent the cutter from sticking, especially when cutting warm candy. Into the reservoir Y there fits a screw-plunger, Z, which has a conical point fitting into the top of pipe Y', by which the flow of oil can be controlled or shut off, as needed.

Various modifications of the different parts can be used to accomplish the general purpose.

I claim—

1. The cutting-machine having the cutters H hung in a frame, I I', with a reciprocating motion, and arranged to be raised and lowered by means of the gates or parts L L', as set forth.

2. The cutting-machine having the cutter H with reciprocating motion, and the carriage-board D with gearing E F G G', to operate the feed of the article cut.

3. The cutting-machine with the cutter H, cutting by moving its edge upon the article cut, and having the oil-reservoir Y and pipe Y' and controlling plunger Z, substantially as set forth.

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Witnesses:

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