No. 693,760. Patented Feb. 18, 1902.

I. B. WALKER.

BUTTER CUTTER.

(Application filed Oct. 18, 1901.)

(No Model.) 2 Sheets—Sheet 1.

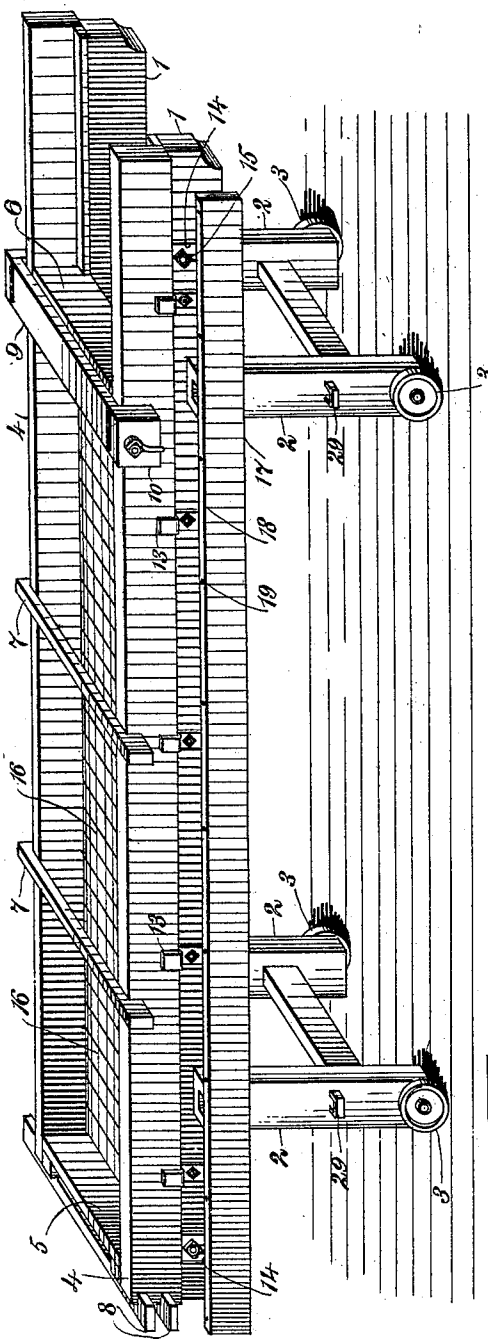


Fig. 1

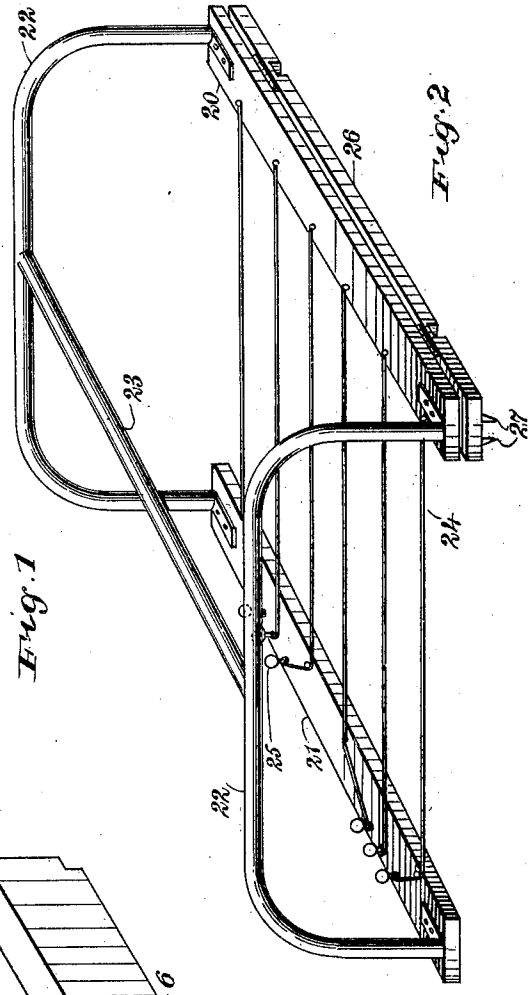


Fig. 2

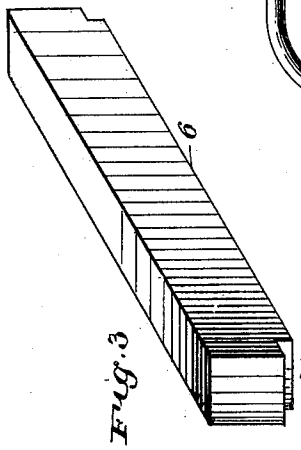


Fig. 3

WITNESSES:

J. Wm. Pepton

C. P. Ferguson

INVENTOR

Ira B. Walker

BY Munn & Co.

ATTORNEYS

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

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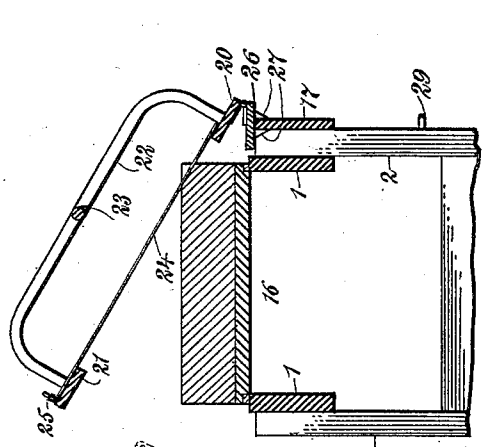


Fig. 6.

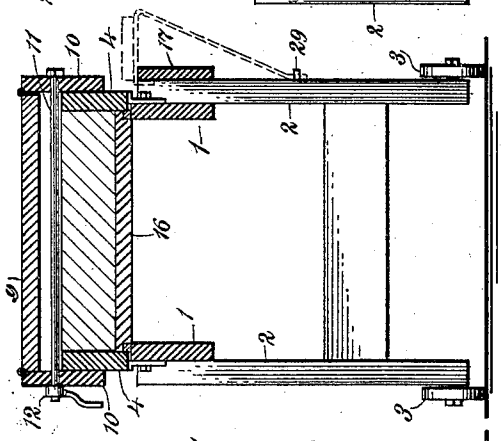


Fig. 5.

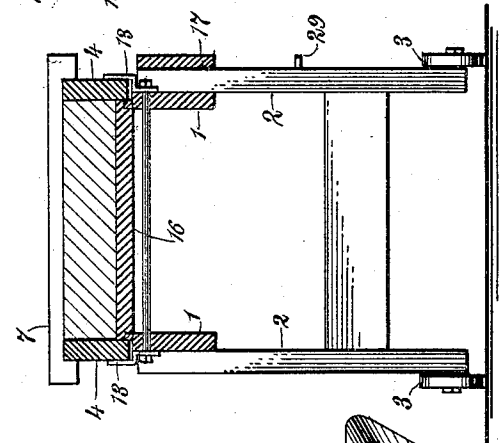


Fig. 4.

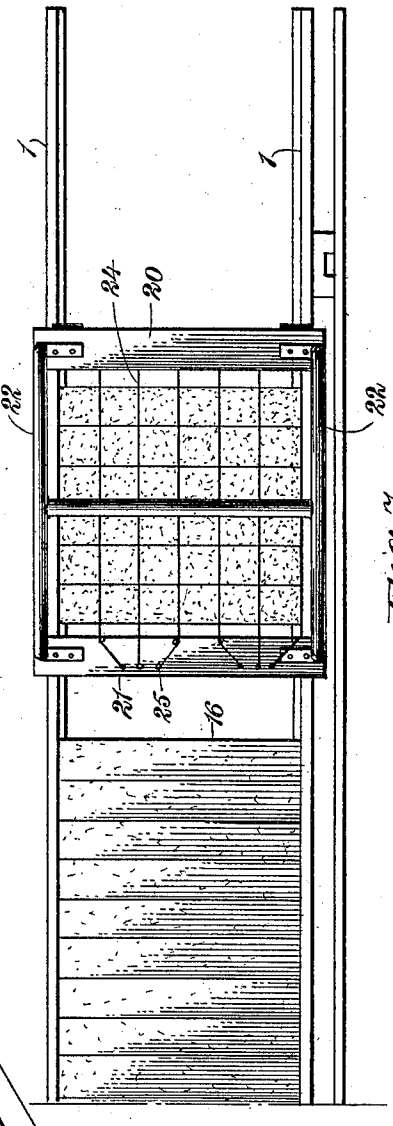


Fig. 7.

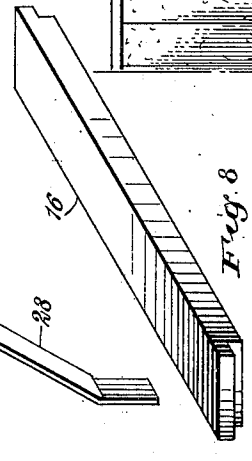


Fig. 8.

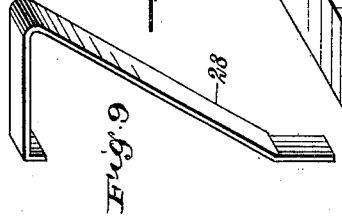


Fig. 9.

WITNESSES:

J. Murray Bellinghouse

C. R. Ferguson

INVENTOR

Ira B. Walker

BY Munn & Co

ATTORNEYS

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

IRA BAILEY WALKER, OF ETNA, CALIFORNIA.

BUTTER-CUTTER.

SPECIFICATION forming part of Letters Patent No. 693,760, dated February 18, 1902.

Application filed October 18, 1901. Serial No. 79,115. (No model.)

To all whom it may concern:

Be it known that I, IRA BAILEY WALKER, a citizen of the United States, and a resident of Etna, in the county of Siskiyou and State of California, have invented a new and Improved Butter-Cutter, of which the following is a full, clear, and exact description.

This invention relates to improvements in machines for cutting butter into squares of equal size and weight; and the object is to provide a cutter of simple construction adapted to be used in creameries or the like and by means of which slabs of butter representing, for instance, a day's output may be quickly and evenly cut to the designed sizes.

I will describe a butter-cutter embodying my invention and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of a table used in connection with a butter-cutter embodying my invention. Fig. 2 is a perspective view of the cutter. Fig. 3 is a perspective view of a stop or gate employed. Fig. 4 is a cross-section of the table. Fig. 5 is a cross-section through the table and through a clamping device employed. Fig. 6 is a cross-section showing the cutter in operative position while cutting the butter crosswise of the table. Fig. 7 is a plan view showing the arrangement of the cutter while cutting the butter lengthwise of the table. Fig. 8 is a perspective view of one of the bottom plates employed in the table, and Fig. 9 is a perspective view showing one of the brackets designed to support a wrapping-table on the side of the main table.

The table comprises side rails 1, supported on legs 2, on the lower ends of which rollers 3 may be provided, so that the table may be readily moved from one place to another. Removably attached to the rails 1 are the upwardly-extended side boards 4, which form the sides between which the butter is placed, and at one end is an end board 5, forming an abutment for the butter. Movable lengthwise of the side boards 4 is a stop or gate 6, and when the parts are assembled the sides 4 may be securely clamped by means of clamping-bars 7, which have downwardly-extending portions engaging with the outer sides of the side boards, and similar clamping-bars 8 are arranged for engagement with the ends of said side boards, as clearly shown in Fig. 1. The gate 6 is firmly clamped in position by means of a bar 9, extended across the machine and having blocks 10 pivoted to its ends designed to be turned downward against the outer sides of the side boards 4. A bolt 11 passes through openings in these blocks 10 and between the parts 6 and 9, as shown in Fig. 5, and on one end of said bolt is a clamping-nut 12.

The side boards 4 are removably seated in brackets 13, attached to the side rails 1, and secured to the under side of each side board 4 are slotted plates 14, through which bolts 15 from the rails 1 pass, the outer sides of the bolts being provided with fastening-nuts. By this means the side boards may be raised or lowered, as desired.

The bottom of the table or the bottom support for the butter consists of plates 16, of wood or other suitable material, each having a width substantially equal to the width of a cake of butter designed to be cut from the slab of butter. The ends of these plates 16 removably rest on the top edges of the rails 1. At one side of the table—that is, the front side—is arranged a longitudinal slide-rail 17, on which the cutter is designed to move when cutting the butter transversely of the table. On the top of this rail is a metal strip 18, provided with stops 19, which form abutments for the frame of the cutter.

The cutter consists of a frame having side strips 20 21, connected at the ends by upwardly-extended handles or bars 22, the said handles or bars being connected by a cross-bar 23. Cutting-wires 24 are secured at one end to the side piece 20 and at the other end to the side piece 21. As here shown, the wires are engaged with the side piece 21 by connecting tightening-screws 25. The side piece 20 has swinging or hinge connection with a plate 26, the said plate near its ends being provided with downwardly-extended lugs 27 for engaging with opposite sides of the slide-bar 17.

In operation the side boards 4 are to be adjusted to the proper height, making the box or table as deep as required for the size or weight of butter. The packing of the butter

is commenced at the end 5, and therefore prior to placing the butter therein a sufficient number of bottom plates 16 are placed in position close together to accommodate the day's output of butter. Then the end plate 6 is placed in position upon the bottom plates. The side boards are next fitted down and clamped. After placing the butter on the table it is to be packed or pressed down firmly with an ordinary butter-patter until the frame is filled between the parts 5 and 6. The top of the butter must be smoothed off with a straight-edge, and then the butter is allowed to stand until it becomes firm.

To cut the butter, the clamps, side boards, and parts 5 and 6 are to be removed and the cutting device placed in position on the rail 17. By forcing the frame downward the wires will be passed through the butter, the several cuts being made in line with the joints between the bottom plates. After cutting one section transversely of the table the cutting device is to be moved on the rail 17 against the next stop 19 and this section of the butter transversely cut, as before. Now to cut the butter lengthwise of the table a series of bottom plates equaling the length of the cutting-wires is to be moved along the table, as indicated in Fig. 7, after which the cutting device is to be placed on the side rails 1, and to prevent lateral movement of the cutting device the bar 26 is provided with notches to receive the top edges of the said side bars. After cutting this section of the butter it is to be moved to the forward end of the table and the cutter again placed in position to cut the remaining butter or the next series or lengths of butter.

When the butter is all cut, brackets 28 are placed in engagement with the front legs 2. As here shown, these brackets have downwardly-turned upper ends to engage over the rail 17, and their lower portions are designed to be engaged in staples 29, attached to the legs. One of the side boards 4 may now be placed on the brackets, thus forming a table on which the butter cakes may be wrapped in oiled paper, cloth, or the like.

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

1. In a butter-cutting device, a table comprising adjustable or movable plates of equal widths formed in the top of the table, removable side boards for the table, means for adjusting the side boards vertically, clamping devices for the side boards, a removable end board, a gate adjustable between the side boards, a clamping device for said gate, and a cutter adapted for connection with the table, substantially as specified.

2. A butter-cutter, comprising a table having side rails, plates movable on said side rails, the several plates being of equal width, side boards removably connected to the side rails, clamping-bars for said side boards, an end board removably connected to the side boards, a gate adjustable between the side boards, a clamping device for said gate, a slide-rail at one side of the table, and a cutting device movable along said slide-rail, substantially as specified.

3. A butter-cutter, comprising a table having side rails, plates removably connected to said side rails, side boards, an end board, clamping-bars for the side boards and end board, a gate adjustable between the side boards, and a clamp for said gate, consisting of a bar extended across the side boards, hinged blocks on the ends of the bar, a bolt for passing through openings in said blocks, and a clamping-nut on the bolt, substantially as specified.

4. A butter-cutter, comprising a table, a cutter consisting of a frame, wires connecting with opposite rails of said frame, handles connecting the opposite rails, a plate with which one of said rails has hinge connection, and a slide-bar on the table on which said plate is designed to move, substantially as specified.

5. In combination with a table, a cutter comprising a frame adapted for swinging connection with the table, wires connected at one end to one side rail of the frame, tightening pins or screws on the opposite side rail with which said wires connect and a slide-bar on the table on which the cutter is designed to move, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

IRA BAILEY WALKER.

Witnesses:
A. B. CARTER,
MARTIN C. BEEM.