C. GLAUS.

BUTTER CUTTING TOOL.

APPLICATION FILED JAN. 17, 1910.

956,072.

Patented Apr. 26, 1910.

Fig. 4.

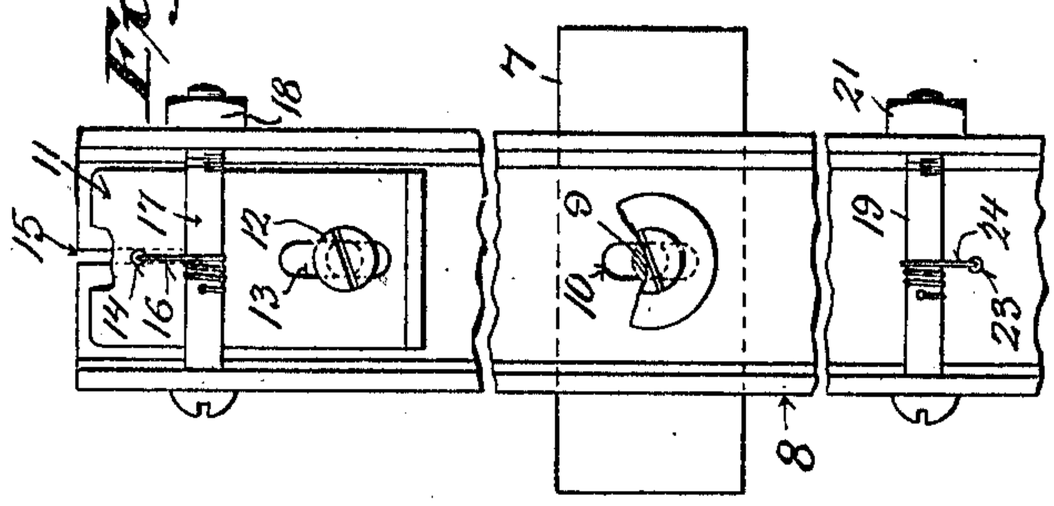

Fig. 3.

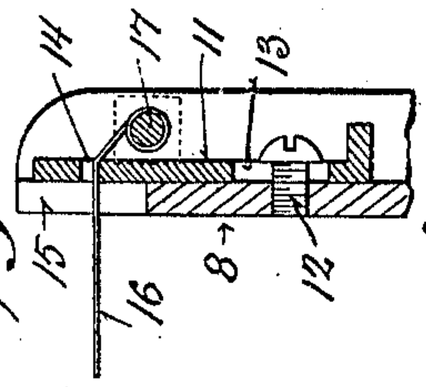

Fig. 2.

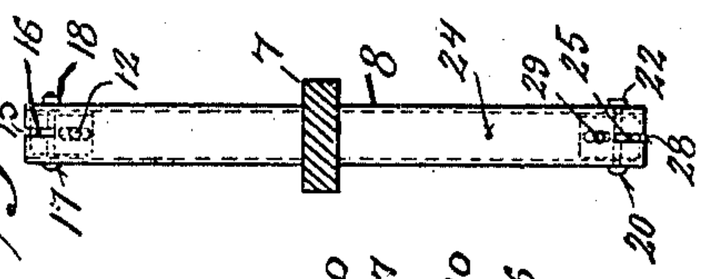

Fig. 5.

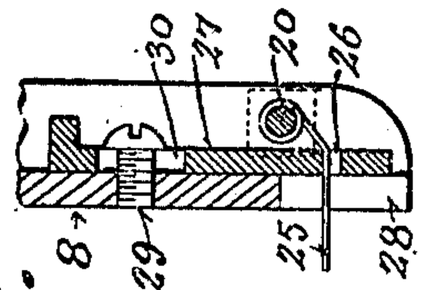

Fig. 7.

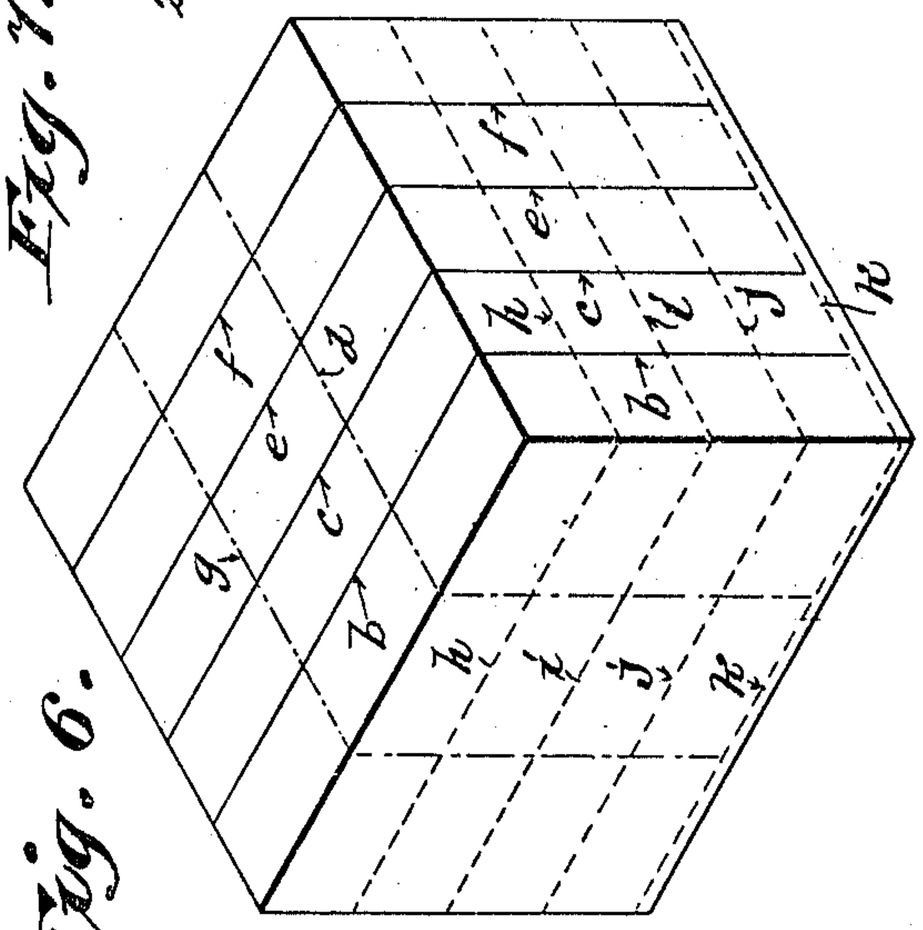

Fig. 1.

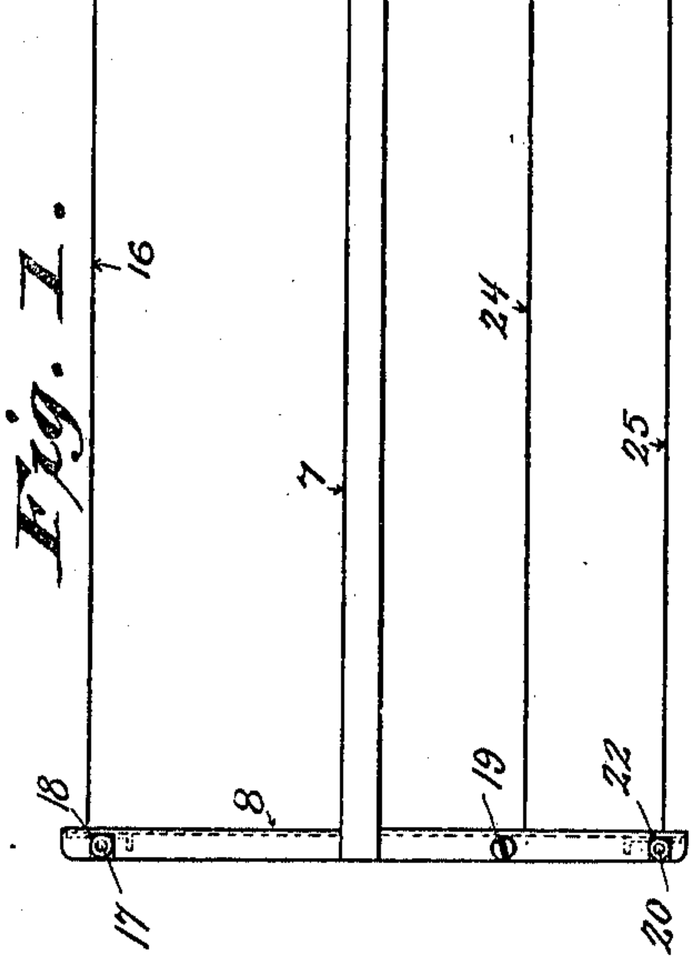

Fig. 6.

Witnesses:
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UNITED STATES PATENT OFFICE.

CHRISTIAN GLAUS, OF MILWAUKEE, WISCONSIN.

BUTTER-CUTTING TOOL.

956,072. Specification of Letters Patent. **Patented Apr. 26, 1910.**

Original application filed October 27, 1909, Serial No. 524,926. Divided and this application filed January 17, 1910. Serial No. 538,398.

To all whom it may concern:

Be it known that I, CHRISTIAN GLAUS, a citizen of the United States, and resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Butter-Cutting Tools; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention herein particularly set forth with reference to the accompanying drawings and pointed out in claims was originally disclosed in my application Serial No. 524,926, filed October 27, 1909, of which this application is a division, said invention having for its object to provide simple, economical, durable and efficient cutting tools by which to facilitate the division of rectangular masses of butter into sections commonly termed "prints" each having predetermined angular proportions common to all, and being severally of approximately the same predetermined weight, a single tool in accordance with my invention serving for all the cutting of a single mold of butter having predetermined angular dimensions.

Figure 1 of the drawings represents a side elevation of a butter-cutting tool in accordance with my invention; Fig. 2, a transverse sectional view of the same; Fig. 3, a vertical sectional view of a fragment of the tool; Fig. 4, an end elevation of said tool partly broken away; Fig. 5, a partly horizontal sectional view of a fragment of the aforesaid tool; Fig. 6, a perspective view of a rectangular mold of butter having the cutting of same indicated by vertical and horizontal lines, and Fig. 7, a vertical sectional view of another fragment of the tool.

Referring by numerals and letters to the drawings, the frame of the preferred form of my improved butter-cutting tool comprises a broad, flat preferably wooden bar 7, and longitudinally slotted channel-iron rails 8, that are mortised in the ends of the bar to which they are fastened by set-screws 9 extending through their slots 10. A longitudinally slotted plate 11 is held in adjusted position in the channel of each of the rails 8 by means of a set-screw 12 that extends through the slot 13 of said plate into said rail. Extending through an eye 14 in each plate 11 and an end-notch 15 in the web of the adjacent rail 8 is a wire 16 fast at its ends on bolts 17 that extend through eyes in the flanges of both rails, a clamp-nut 18 being run on each bolt and one or both bolts turned, each in the proper direction, to make the wire taut. Other bolts 19 and 20 extend through eyes in the flanges of the rails 8 and clamp-nuts 21 and 22 are run on these bolts. Extending through eyes 23 in the webs of the rails 8 is a wire 24 made taut on the bolts 19 to which its ends are fastened. Another wire 25 is similarly employed in connection with the bolts 20, but in order to provide for adjustment of this wire to regulate the distance of same from the one 24, it is herein shown extending through eyes 26 in adjustable plates 27 and longitudinal slots or notches 28 in the webs of the rails 8 to which said plates 27, similar to the plates 11, are secured by set-screws 29. These set-screws 29 extend through slots 30 in the plates 27 and into the adjacent rails.

The bar 7 is adjusted and secured a predetermined distance from the wire 24 facing one side of same, it being adjustable to compensate for its swell or shrink, and the wire 16 is then adjusted to a predetermined distance from the opposite side of said bar. There is ordinarily a predetermined fixed distance between the wires 24 and 25, but provision is had for adjusting the latter wire to compensate for different densities of butter according to the season of the year in which the same is produced.

A mold of butter of predetermined angular proportions having been suitably stayed against slip on a suitable support and the bar and wires of the cutting-tool being at the proper relative distances apart, as shown in Fig. 1, the division of the mold into prints may be effected as follows: By first manipulating the cutting-tool to make the vertical cuts *b*, *c*, with the wires 24 and 25, then the vertical cut *d* with the wire 16, then the vertical cuts *e*, *f*, with said wires 24 and 25 and the vertical cut *g* with the wire 16, after which the horizontal cuts *h*, *i*, are made with the wires 24 and 25, the completed prints removed and the horizontal cuts *j*, *k*, made with said wires 24 and 25 to complete the separation of the mold into prints of predetermined angular proportions, a residue of butter being left upon the support aforesaid to be afterward incorporated in another mold of the material. The cuts *e*, *f*, may

be made next after the cuts *b*, *c*, to be followed by the cuts *d*, *g*, in successive order, and the horizontal cuts *i*, *k*, may be made by the wire 16 of the tool to the exclusion of the cuts *h*, *j*.

By means of a tool such as is herein specified, one operative can rapidly separate successive molds of butter into prints of accurate predetermined angular dimensions without tear or waste, this being a matter of importance in the preparation of print butter for market, it being understood that the bar 7 of the tool slides along a side or the top of the mass of butter in which the cuts are made.

I claim:

1. A butter-cutting tool comprising a pair of rails, a bar rigidly secured at its ends to the rails approximately midway of their extremities, and taut wires extending between said rails at predetermined distances from opposite sides of the bar.

2. A butter-cutting tool comprising a bar, rails to which the bar is adjustably secured at its ends, the rails being extended in opposite directions from said bar, and taut wires extending between said rails at predetermined distances from opposite sides of said bar.

3. A butter-cutting tool comprising a pair of rails, a bar rigidly secured at its ends to the rails approximately midway of their extremities, taut wires extending between said rails at predetermined distances from opposite sides of the bar, and means by which an adjustment may be had of at least one of said wires to compensate for an adjustment of the aforesaid bar.

4. A butter-cutting tool comprising a bar, rails to which the bar is adjustably secured at its ends, the rails being extended in opposite directions from the bar, a single taut wire extending between the rails in one direction from said bar, a pair of taut wires also extending between said rails at predetermined intervals in the opposite direction from said bar, and means by which provision is had for adjusting the first named wire to compensate for an adjustment of the aforesaid bar.

5. A butter-cutting tool comprising a bar, rails to which the bar is adjustably secured at its ends, the rails being extended in opposite directions from the bar, a single taut wire extending between the rails in one direction from said bar, a pair of taut wires also extending between said rails at predetermined intervals in the opposite direction from said bar, and means for adjusting the outermost wires in a direction longitudinally of the aforesaid rails.

6. A butter-cutting tool comprising channel-rails having longitudinal openings in the webs thereof, a bar having rail-fitting mortises in its ends, set-screws extending through rail-openings into the bar, plates in adjustable connection with the webs of said rails longitudinally of the same, a wire extending through rail and plate openings, bolts arranged to turn in the rail-flanges and to which the ends of said wire are attached, other bolts in similar arrangement with respect to the rail-flanges, another wire extending through rail-openings, and attached at its ends to the latter bolts, and set-nuts on all the bolts, said wires being in opposite directions from said bar.

7. A butter-cutting tool comprising channel-rails having longitudinal openings in the webs thereof, a bar having rail-fitting mortises in its ends, set-screws extending through rail-openings into the bar, plates in adjustable connection with the webs of said rails longitudinally of the same, a wire extending through rail and plate openings, bolts arranged to turn in the rail-flanges and to which the ends of said wire are attached, other bolts in similar arrangement with respect to the rail-flanges, a pair of wires extending through rail-openings and each attached at the ends thereof to a pair of the latter bolts, and set-nuts on all the bolts, the single and paired wires being in opposite directions from said bar.

8. A butter-cutting tool comprising channel-rails having longitudinal openings in the webs of same, a bar having rail-fitting mortises in its ends, set-screws extending through rail-openings into the bar, plates in adjustable connection with the webs of said rails longitudinally of the same at opposite ends thereof, wires extending through rail-openings and openings in each pair of the plates, another wire arranged between said bar and one of the wires aforesaid to extend through rail openings, bolts arranged to turn in the rail flanges and to which the ends of the wires are attached, and set-nuts run on the bolts.

In testimony that I claim the foregoing I have hereunto set my hand at Milwaukee in the county of Milwaukee and State of Wisconsin in the presence of two witnesses.

CHRISTIAN GLAUS.

Witnesses:
LIZZIE RUTZINSKI,
OSCAR C. MEHL.