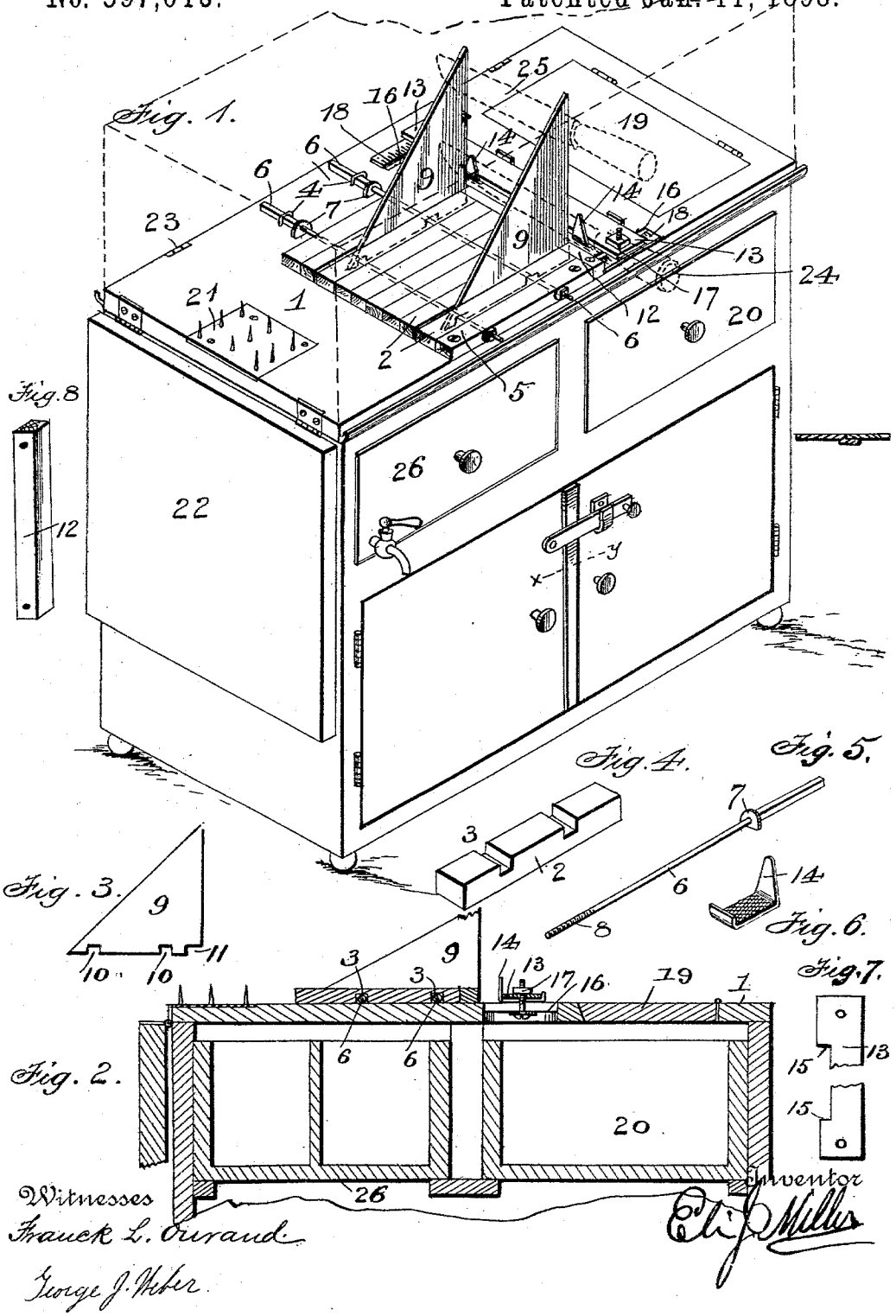
(No Model.)

E. J. MILLER.

CUTTER GUIDE.

No. 597,013. Patented Jan. 11, 1898.



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UNITED STATES PATENT OFFICE.

ELI J. MILLER, OF YORK, PENNSYLVANIA.

CUTTER-GUIDE.

SPECIFICATION forming part of Letters Patent No. 597,013, dated January 11, 1898.

Application filed March 13, 1897. Serial No. 627,411. (No model.)

To all whom it may concern:

Be it known that I, ELI J. MILLER, a resident of York, county of York, and State of Pennsylvania, have invented certain new and useful devices and improvements in a cutting guide or guides arranged and constructed on a platform or top and a support, frame, safe, or cabinet, of which the following is a specification.

My cutting guide or guides are intended for household or kitchen use in guiding, slicing, cutting, or separating ordinary thicknesses or sizes of bread, vegetables, and other things used in the culinary line. I may mount or construct it upon a support, stand, safe, or cabinet of such a character as to be suitable for the preservation and care and storage of food or other things and a support, cabinet, or stand for the platform or top.

The accompanying drawings represent an embodiment of my invention, in which—

Figure 1 is a perspective view of my cutter-guide mounted upon a support or cabinet. Fig. 2 is a view in vertical section of a part of the apparatus shown in Fig. 1, showing the mounting of my gage-plate and receptacle. Fig. 3 is a side view of one of the boards, uprights, or posts which form the chute or receptacle to receive the bread or other material preparatory for the cutting. Fig. 4 is an inverted perspective view of one of the transversely-grooved strips which form the top of the receptacle or bottom of the chute. Fig. 5 is a perspective view of one of the two square screw-ended rods provided with a semicircular shoulder which are used in clamping the boards, uprights, or posts in place between the strips. Fig. 6 is a perspective view of one of the vertical guide-posts or gages used in guiding the knife. Fig. 7 is a broken plan view of my gage-plate. Fig. 8 is a view of my cutting-edge plate.

1 designates a platform, top, or lid. Upon this is mounted or constructed the cutting-guide and its appurtenances. This guide consists, in part, of a number of strips 2, each of which is provided on its under side with transverse grooves 3. These grooves are symmetrically placed in all the strips, so that the strips can be interchanged and their grooves and edges always be in alinement. Mounted upon the platform or top in fastenings or staples 4 and in strip 5, which is secured to the top or platform, are the square screw-ended rods 6, each of which is provided near one end with a semicircular shoulder 7, secured thereto, and at the other with a screw-thread 8 and nuts on the screw-threads 8.

9 represents one of two right-triangular boards, uprights, or posts which form the chute or receptacle to receive the bread or other material to be cut. Each of these is provided on its lower edge with grooves 10, corresponding in width and distance from the front edge with the grooves 3 of the strips, and also with a shoulder or recess 11 of a width approximately equal to the width of the cutting-edge plate 12, secured to top or platform, so that when the uprights or posts are in position their vertical edges will be approximately flush with the front edge of such cutting-edge plate. These uprights, boards, or posts 9 may be adjusted or moved to and from each other in order to accommodate the device to the size of the various articles to be cut, sliced, or separated.

Immediately in front of the cutting-edge plate 12 I provide a gage-plate 13. This plate is provided on the edge nearest the metal strip 12 with two vertical guide-posts 14, which are turned up at each end, so as to have a general V shape. These vertical guide-posts are adjustable lengthwise of the gage-plate, so as to conform generally to the positions of the triangular boards, uprights, or posts 9. The bottom portion is of the width of the hereinafter-described recessed portion of the gage-plate and the turned-up portion 15 of which, nearer the cutting-edge plate 12, is made of such a height as to extend above such cutting-edge plate. The gage-plate is recessed on the edge nearest the cutting-edge plate, as shown at 15, to a depth equal to the thickness of the metal or other material of which the guide-posts 14 are made. The platform or top is provided with slots 16, in which are placed bolts or other fastenings 17, passing at each end through the gage-plate 13.

By this means such plate may be adjusted to any required distance from the cutting-edge strip 12 and posts 9. To further facilitate this and to permit accurate adjustment, I provide the platform or top at or near each end of the gage-plate with a scale or index 18.

As an important feature I also make near the gage-plate an opening in the top or platform and provide it with a lid or trap-door 19 for the purpose of connecting it with the drawer 20, reservoir, or receptacle constructed in the cabinet underneath to receive any article cut or separated on the platform, and for the preservation of such bread or vegetables cut, held, or stored therein and thereunder I may construct a refrigerator or cooling apartment or apartments 26. In close proximity thereto on a support and shelving constructed thereunder I may also provide a meat-tenderer 21, and may also provide a drop-leaf 22. The top or platform may be hinged to the cabinet, as shown at 23. I may also provide a cover, as shown in dotted lines in Fig. 1.

In using this device the operator places his knife against the guide-posts 14, as shown at 24, with his right hand and with his left he shoves the loaf of bread or other article forward against the knife. He then raises or withdraws the knife to the position shown at 25, cuts off a slice, and repeats the operation as often as he desires. It will be seen that by thus using the knife itself to limit the forward movement of the article to be cut in line with the gage-knife or gage-posts an unobstructed space between the vertical gage-posts is left for each slice to fall clear. It will also be evident that the boards, uprights, or posts can be set to any desired distance apart to accommodate an object or article of any ordinary size by loosening the nuts or the screws 8 and changing the location of such uprights.

I may also construct a refrigerator cooling-apartment 26 in said cabinet.

I have not deemed it necessary to describe in detail the cabinet here shown, which, as stated above, is a refrigerator of an ordinary type and with which my cutter-guide may or may not be used.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination with the platform or top, of a cutter-guide comprising the uprights, boards or posts, notched at the base; the series of interchangeable transversely-grooved strips, the fastenings 4, shouldered and screw-ended rods 6, passing through said grooves and notches, strip 5 secured to the top of the platform, and tightening-nuts for rods 6, substantially as described.

2. The combination with the platform or top, of a cutter guide or guides, comprising the uprights, boards or posts 9, the series of strips coöperating therewith, and a gage-plate adjustable to and from the uprights, boards or posts, said gage-plate being provided with vertical guide-posts adjustable along the gage-plate so as to be conformable to the position of and approximately in line with the knife-guiding edges of the uprights, boards or posts, 9, substantially as described.

3. The combination with the platform or top, of a cutter-guide comprising the uprights, boards or posts 9, notched at the base: the series of interchangeable transversely-grooved strips, the fastenings 4, shouldered and screw-ended rods 6, passing through said grooves and notches, strip 5, secured to the top of the platform and tightening-nuts for rods 6, said platform or top provided with a lid-covered opening arranged in front of and in proximity to the said cutter guide or guides, substantially as described.

4. A cutter-guide constructed or arranged upon a platform or top and in combination therewith, said cutter-guide comprising boards, uprights or posts notched at the base in combination with and held and supported in a series of interchangeable transversely-grooved strips, the grooves in the strips and the notches in the bases of the posts corresponding with each other and means coöperating with the grooves and notches whereby they are kept in alinement, substantially as described.

5. A cutter-guide constructed and arranged upon a platform or top provided with strips 5 and in combination therewith, said cutter-guide comprising boards, uprights or posts, notched at the base in combination with a series of interchangeable transversely-grooved strips, and with shouldered screw-rods, the rods passing through the grooves in the strips and the notches in the boards or uprights and serving to clamp the strips between the shoulders and strip 5, substantially as described.

6. The combination, with a cabinet provided with a lid or top having an opening, a lid arranged to close said opening and a receptacle arranged to be withdrawn from the front of the cabinet and located below said opening, of a cutter-guide arranged upon the cabinet-top and in close proximity to the opening in the same, whereby the cut articles will fall from the cutter-guide to the said receptacle through the opening, while at the same time the said receptacle may serve as a drawer of the cabinet.

7. The combination of a number of transversely-grooved strips, suitable rods engaging the grooves of such strips and provided with means for clamping them together, uprights or boards provided with notches corresponding to the grooves and adapted to be clamped between the strips, said strips and boards abutting against a cutting-edge plate at the front end, substantially as described.

8. The combination of a cutter-guide, cut-

ting-edge plate and an adjustable gage-plate provided with gage-posts adjustable lengthwise of said gage-plate, substantially as described.

9. The combination of a cutter-guide, cutting-edge plate and an adjustable and movable recessed gage-plate provided with V-shaped gage-posts adjustable lengthwise of the recess in said gage-plate, substantially as described.

In testimony whereof I have affixed my signature in presence of two witnesses.

ELI J. MILLER.

Witnesses:
J. A. JOHNSTON,
JOSÉ M. YZNAGA.