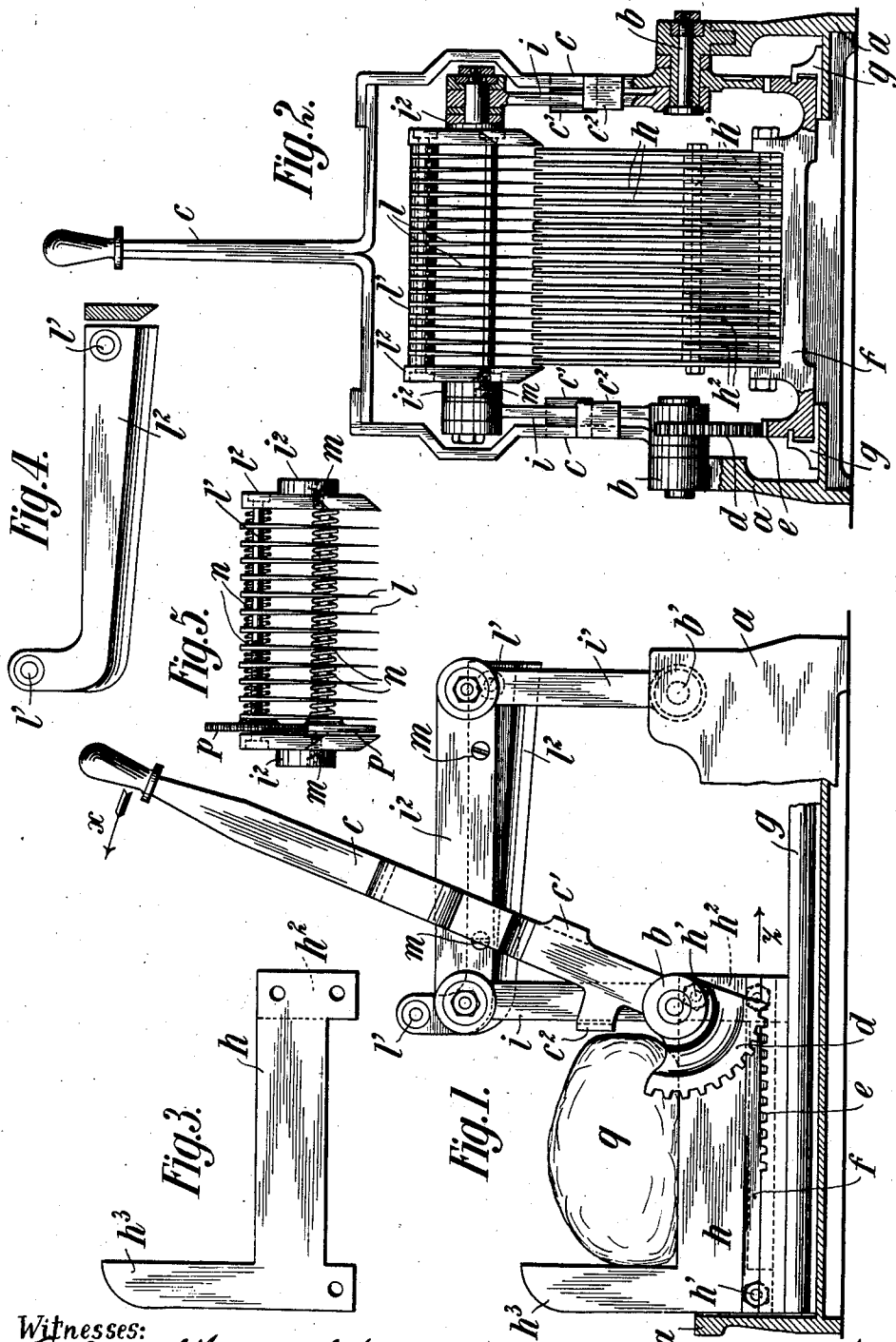


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CUTTING DEVICE FOR BREAD, MEAT, AND THE LIKE.  
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Patented Apr. 5, 1910.



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# UNITED STATES PATENT OFFICE.

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CUTTING DEVICE FOR BREAD, MEAT, AND THE LIKE.

954,112.

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Patented Apr. 5, 1910.

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*To all whom it may concern:*

Be it known that I, MAX KORALLIS, a subject of the King of Prussia, residing at 9 Hopfenstrasse, Hamburg, Germany, have invented certain new and useful Improvements in Cutting Devices for Bread, Meat, and the Like; and I do hereby declare the following to be a full, clear, and exact description of the invention.

The present invention relates to a device for simultaneously cutting bread, meat and the like, into a number of equal slices. The essential characteristic feature of the invention consists in the disposition of a removable grate, adapted to receive the article to be cut, on a bed-plate, and a plurality of knives secured to the bed-plate or frame by means of links in such a way, so as to admit of a swinging movement of the same. Both the knives as well as the grate are moved toward each other with the assistance of a hand-lever also mounted in the frame, and which lever gears with its toothed segments into corresponding teeth of toothed bars or racks of the grate, and grasps with the aid of abutments around the links of the knives. By moving the lever the knives are forced into the article to be cut and the same is thereby carved into the desired slices. The knives as well as the grate are removably and adjustably disposed in such a way, that they may be replaced by another grate and another set of knives, or as the case may be only by another set of knives, with the knives and grate bars spaced nearer or farther from one another, the spaces corresponding to the required thickness of the slices.

In the accompanying drawings in which like parts are similarly designated Figure 1 shows a side view, and Fig. 2 a front view of the device. Fig. 3 represents a single grate bar and Fig. 4 a single cutting knife. Fig. 5 shows a set of adjustable cutting knives.

To the bed-plate or frame *a* of the device a fork-like hand-lever *c* is secured swinging in bearings *b*. The lever *c* is provided with a toothed segment *d* engaging with racks *e*. These racks *e* are secured to a sliding-carriage *f*, sliding to and fro in guides *g* of the frame *a*. The sliding-carriage *f* carries a number of bars *h*, Figs. 1 to 4, united to the grate by means of bolts *h*<sup>1</sup> and kept in proper position by small plates *h*<sup>2</sup>. In the bearings *b* and *b*<sup>1</sup> of the frame *a* are pivoted links *i*, *i*<sup>1</sup>, the disengaged ends of which are

linked together by means of connecting-rods *i*<sup>2</sup>. The links *i*, *i*<sup>1</sup> and the connecting-rods *i*<sup>2</sup> thus form a parallelogram of links. Between the links *i* a set of knives *l* is disposed, which latter are likewise connected to one another by means of bolts *l*<sup>1</sup>, the spacing of the knives corresponding to that of the grate-bars *h*. The set of knives *l* is secured to the connecting-rods *i*<sup>2</sup> by means of screws *m* passing through the rods *i*<sup>2</sup> and being screwed into the outer knives *l*<sup>2</sup> of heavier construction. The hand-lever *c* is provided with abutments *c*<sup>1</sup>, *c*<sup>2</sup>, which grasp behind or in front of the links *i*, leaving a certain amount of play between one another in such a manner, that as soon as the movement of the lever *c* in one or the other direction begins, the sliding-carriage *f* together with the grate have already been moved to a certain extent, ere the abutments *c*<sup>1</sup> and *c*<sup>2</sup> respectively, grasp behind or in front of the links *i*, causing the knives *l* to proceed in the same direction by a further swinging movement of the hand-lever *c*.

The device operates in the following manner: The article *q* to be cut, for instance, bread, meat, or the like, is put upon the grate *h* and the hand-lever *c* is then moved in the direction of the arrow *x*. By means of the toothed segment *d* the grate, whose bars *h* are provided with an abutment *h*<sup>3</sup> is moved in the direction of the arrow *z*. After having swung the lever *c* into an approximate vertical position the abutments *c*<sup>1</sup> grasp behind the links *i*, by which proceeding the knives *l* are swung by means of the links *i*, *i*<sup>1</sup> in a circular way about the bearings *b*, *b*<sup>1</sup>, toward the article *q* to be carved and thereby cut the latter into a number of slices. By reversing the lever *c*, at first the sliding-carriage *f* is returned until the abutments *c*<sup>2</sup> strike against the links *i* and then by these latter the knives *l* are led back to their original position.

In order to obtain slices of different thickness, the knives *l* and grate-bars *h* may be replaced by a new set of knives and grate-bars being differently distanced from one another. A variation, however, of the thickness of slices may be attained by means of the same set of knives and grate-bars respectively, by freely and movably arranging the knives or grate-bars on their bolts *l*<sup>1</sup> and *h*<sup>1</sup>, respectively, the same being kept equal distances from one another by springs *n*, Fig. 5. By adjusting the screw *p* at one end of the

bolt 7<sup>1</sup> the distance of the knives from one another may be altered at will.

I claim:

In a cutting device, in combination, a bed-plate with guides, a grate movable therein and provided with racks, two pairs of links journaled with one end to the bed-plate and carrying a set of knives, a fork-like lever journaled to the bed-plate and having pin-

ions engaging said racks, and having abutments grasping behind one pair of the links. 10

In testimony that I claim the foregoing as my invention, I have signed my name in presence of two subscribing witnesses.

MAX KORALLIS.

Witnesses:

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OTTO W. HELLMRICH.