J. T. DWYER.

SLICING KNIFE.

APPLICATION FILED AUG. 29, 1916.

1,205,871. Patented Nov. 21, 1916.

Fig. 1.

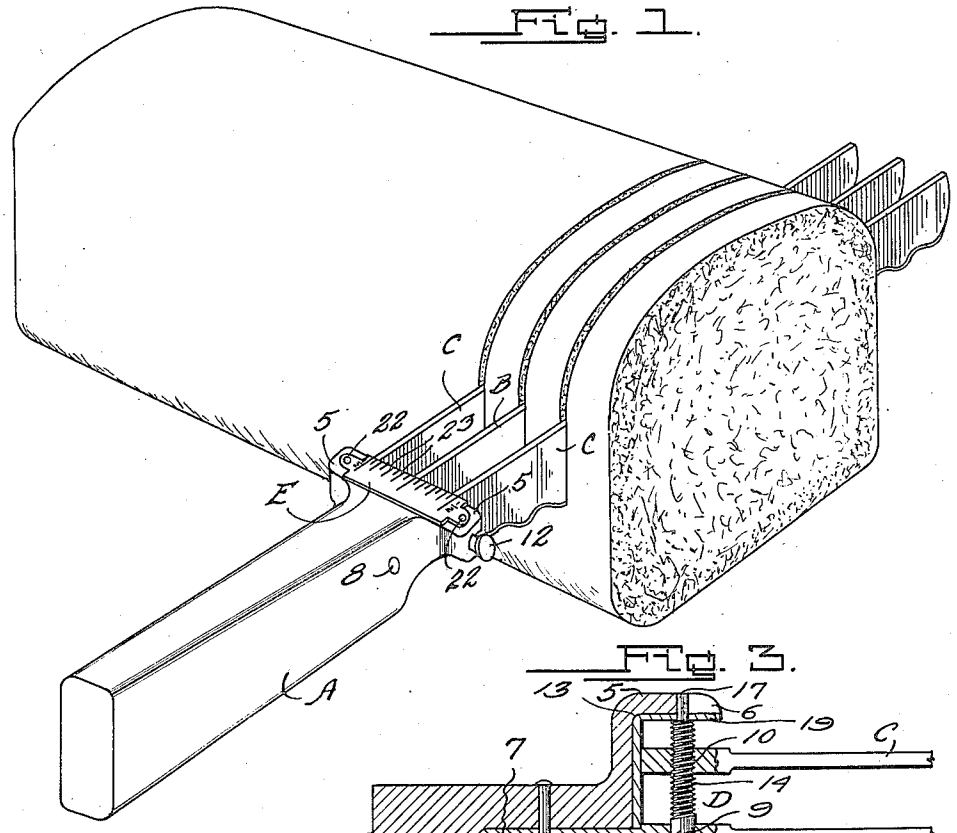


Fig. 3.

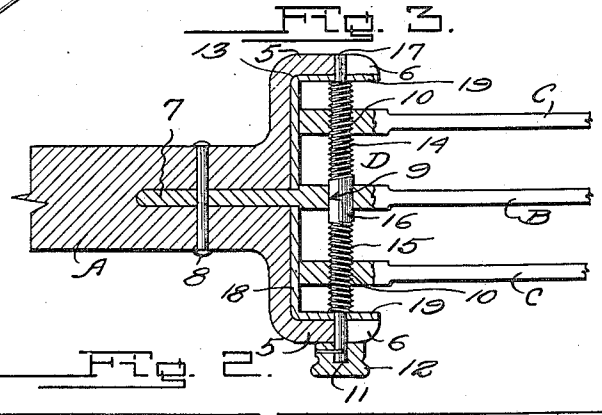


Fig. 2.

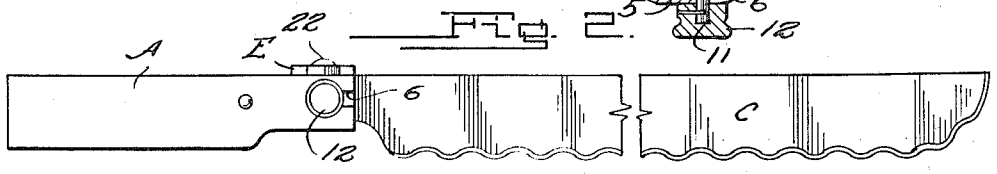
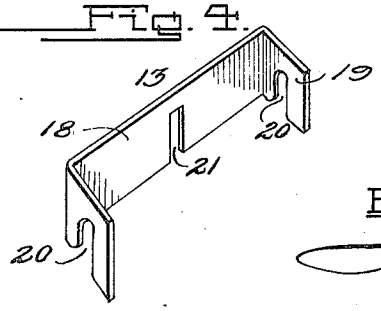


Fig. 4.



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SLICING-KNIFE.

1,205,871. Specification of Letters Patent. Patented Nov. 21, 1916.

Application filed August 29, 1916. Serial No. 117,556.

To all whom it may concern:

Be it known that I, JOHN T. DWYER, a citizen of the United States, and a resident of West Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and useful Improvement in Slicing-Knives, of which the following is a specification.

My present invention relates to slicing knives which comprise a handle and a plurality of parallel blades projecting therefrom.

The principal objects of my invention are to provide slicing knives of the character described, the blades of which are adjustable laterally of one another or with respect to a central blade rigid with the handle, so as to enable the user to cut a plurality of slices from a body of material, such as bread, cake, etc., at one operation, said slices of the desired thickness; to provide knives of the character described which are capable of fine adjustment so that it is possible to provide a predetermined number of slices of material from each of several masses of foodstuff of uniform size, once the distance between the blades is gaged; and, to provide knives of the character described which may be adjusted to cut relatively thin slices of material from bodies, such as hams or beets, or to cut relatively thick slices as from loaves of bread, etc.

Other objects of my invention will appear in the following detailed description, taken in connection with the accompanying drawing, forming a part of this specification, and in which drawing:

Figure 1 is a perspective view of a knife embodying my invention, the bades of which enter a body of material, such as a loaf of bread, to cut slices therefrom. Fig. 2 is a side elevation of the knife, portions of the blade being removed to condense the view. Fig. 3 is a fragmentary horizontal sectional view through the knife at that portion where the blades are in coupled relation with the handle. Fig. 4 is a perspective view of a bushing which may form a part of the knife.

In the drawing, where similar characters refer to similar parts throughout the views, A designates a carrier or handle; B a blade rigid with said handle; C a plurality of blades movable toward and from each other and toward and from blade B; D means for adjusting the position of blade B with respect to each other and with respect to blade B; and, E a scale facilitating adjustment to provide slices of material, of predetermined thickness.

Referring first to the handle A, it may be made of any suitable material, such as wood, metal, or fiber, and is formed to provide two arms 5 in spaced relation at one end portion of the handle, said arms being preferably slotted inwardly from their ends, as indicated at 6, for a purpose to be subsequently set forth.

As to the blade B, it is preferably disposed in the longitudinal axis of the handle so as to project therefrom at that end between the arms 5, the blade being provided with a tang 7 which extends into the main body portion of the handle and is secured in place, as hereinafter described, by rivet 8. The blade B is also preferably provided with a perforation 9, the axis of which is transversely of the blade and adjacent the handle A, the said axis extending through the slot 6 of arms 5.

Referring now to the blade C, in the example shown, two are provided, one at each side of the blade B and in parallel relation thereto, each blade C being provided with a screw-threaded bore 10, the threads of the bore of one blade extending in a direction counter to that of the threads of the other blade.

Referring now to the means D for adjusting the position of blades C with respect to each other and with respect to the blade B, it comprises a revoluble member 11 a thumb-wheel 12 rigid therewith; and preferably a bushing 13 having the dual function of retaining the blades B and C in substantially the same plane, and retaining the revoluble member 11 in operative relation to the handle A. The revoluble member 11 is provided with two screw-threaded sections 14 and 15, the threads of one section extending in a direction counter to those of the other section, and said sections separately in screw-threaded engagement with the movable blades C, the screw-threaded sections extending through the bores 10 of said blades. The said revoluble member is also provided with a cylindrical portion 16 which extends through the perforation 9 of blade B, the ends of the revoluble member being preferably reduced as at 17 and lying in the slots 6 of arms 5. The bushing 13 is pro-

vided with a main body portion 18 which lies transversely of the axis of handle A between the arms 5 thereof, with the arms 19 of said bushing engaging the confronting faces of the arms 5 of handle A. The arms 19 are provided with slots 20 which, when the bushing is in operative relation to the handle, extend transversely of the slots 6 forming bearing for the revoluble member 11. The main body portion 18 is also slotted as at 21 for the reception of the tang 7 of blade B.

In order to retain the bushing 13 in place, a plate E is provided, secured to the handle A as by screws 22 in screw-threaded engagement with the arms 5, this plate being provided with graduations 23 which facilitate the spacing of the blades C a predetermined distance from the blade B as is obvious from an inspection of Fig. 1 of the drawing.

In assembling the blades into operative relation to the handle and to the means D the revoluble member 11 may be first passed through the perforation 9 of blade B, whereafter the blades C are fed upon the screw-threaded sections of the revoluble member. These elements are then assembled into operative relation to the handle A, as by driving the tang 7 into the handle, the end portions 17 of the revoluble member 11 extending into the slot 6. The bushing 13 is then passed downwardly with the walls of slots 20 embracing the end portions of the revoluble member, and the slot 21 accommodating the tang 7 of the blade B. After the bushing is in place, the blade B may be driven tightly into engagement with the handle A so that the end portions of the blades C engage the main body portion 18 of bushing 13, maintaining all of the blades in substantially the same plane. The rivet 8 may then be fixed extending transversely through the handle A and through the tang 7, after which the plate E may be disposed into operative relation to the handle preventing casual displacement of the bushing 13. Adjustment may be attained by rotating the thumb-wheel 12 which, in one direction, moves the blades C toward each other and toward the blade B, whereas, if moved in a counter-direction, the said blades C are moved away from each other and away from the blade B. The operator may gage the distance between blades by reference to the delineations on plate E.

Changes in details may be made without departing from the spirit or scope of my invention; but,

I claim:

1. A slicing knife comprising in combination, a handle, a blade rigid therewith, two blades movable with respect to said handle and disposed one at each side of said rigid blade in parallel relation thereto, and means for moving said second-mentioned blades simultaneously toward or from said rigid blade and retaining the same in an adjusted position with respect thereto.

2. A slicing knife comprising in combination, a handle, a blade rigid therewith, two blades movable with respect to said handle and disposed one at each side of said rigid blade in parallel relation thereto, and a revoluble member carried by said handle and provided with screw-threaded sections, the thread of one section extending in a direction counter to that of the other section, and said sections separately in screw-threaded engagement with said movable blades.

3. A slicing knife comprising in combination, a handle, two blades movable toward and from each other laterally, guided by said handle, and a revoluble member carried by said handle and provided with screw-threaded sections, the thread of one section extending in a direction counter to that of the other section, and said sections separately in screw-threaded engagement with said blades.

4. A slicing knife comprising in combination, a handle including two arms in spaced relation at one end portion thereof, a U-shaped bushing, the main body of which lies transversely of the axis of and adjacent said handle between the said arms thereof, with the arms of said bushing engaging the confronting faces of said arms of said handle, two blades movable toward or from each other laterally, with ends engaging and slidable over the face of the main body of said bushing, and a revoluble member carried and extending between the said arms of said handle, said revoluble member being provided with screw-threaded sections, the thread of one section extending in a direction counter to that of the other section, and said sections separately in screw-threaded engagement with said blades.

5. A slicing knife comprising in combination, a handle including two arms in spaced relation at one end portion thereof, a bushing lying transversely of the axis of and adjacent said handle between the said arms thereof, two arms movable toward and from each other laterally, with ends engaging and slidable over the face of said bushing, and a revoluble member carried by and extending between the said arms of said handle, said revoluble member being provided with screw-threaded sections, the thread of one section extending in a direction counter to that of the other section, and said sections separately in screw-threaded engagement with said blades.

6. A slicing knife comprising in combination, a handle including two arms in spaced relation at one end portion thereof, said arms provided with slots, a U-shaped bush-

ing, the main body portion of which lies transversely of the axis of and adjacent said handle between the said arms thereof, the arms of said bushing engaging the confronting faces of said arms of said handle, the said arms of said bushing provided with slots at right angles to the slots of the said arms of said handle to provide bearings, two blades movable toward and from each other laterally, with ends engaging and slidable over the face of the said main body of said bushing, and a revoluble member extending between the said arms of said handle and through the said slots of said bushing, said revoluble member provided with screw-threaded sections, the thread of one section extending in a direction counter to that of the other section, and said sections separately in screw-threaded engagement with said movable blades.

7. A slicing knife comprising in combination, a handle, including two arms in spaced relation at one end portion thereof, said arms provided with slots, a U-shaped bushing, the main body portion of which lies transversely of the axis of and adjacent said handle between the said arms thereof, the arms of said bushing engaging the confronting faces of said arms of said handle, the said arms of said bushing provided with slots at right angles to the slots of the said arms of said handle to provide bearings, two blades movable toward and from each other laterally, with ends engaging and slidable over the face of the said main body of said bushing, a revoluble member extending between the said arms of said handle and through the said slots of said bushing, said revoluble member provided with screw-threaded sections, the thread of one section extending in a direction counter to that of the other section, and said sections separately in screw-threaded engagement with said movable blades, and a plate extending over said bushing and secured to said handle, said plate provided with delineations parallel with the planes of said blades.

8. A slicing knife comprising in combination, a handle including two arms in spaced relation at one end portion thereof, a U-shaped bushing, the main body of which lies transversely of the axis of and adjacent said handle between said arms thereof, the arms of said bushing engaging the confronting faces of said arms of said handle, a blade rigid with said handle and including a tang extending through the said main body of said bushing, the said arms of said bushing provided with slots at right angles to the slots of the said arms of said handle to provide bearings, two blades movable toward and from each other laterally, with ends engaging and slidable over the face of the said main body of said bushing, and a revoluble member extending between the said arms of said handle and through the said slots of said bushing, said revoluble member provided with screw-threaded sections, the thread of one section extending in a direction counter to that of the other section, and said sections separately in screw-threaded engagement with said movable blades.

JOHN T. DWYER.