E. A. SALTZMAN.

ATTACHMENT FOR KNIVES.

APPLICATION FILED AUG. 19, 1912.

1,069,189. Patented Aug. 5, 1913.

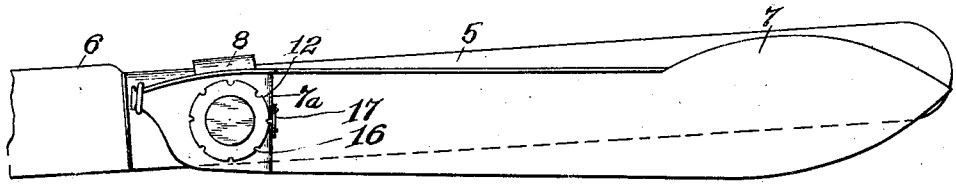

Fig. 1.

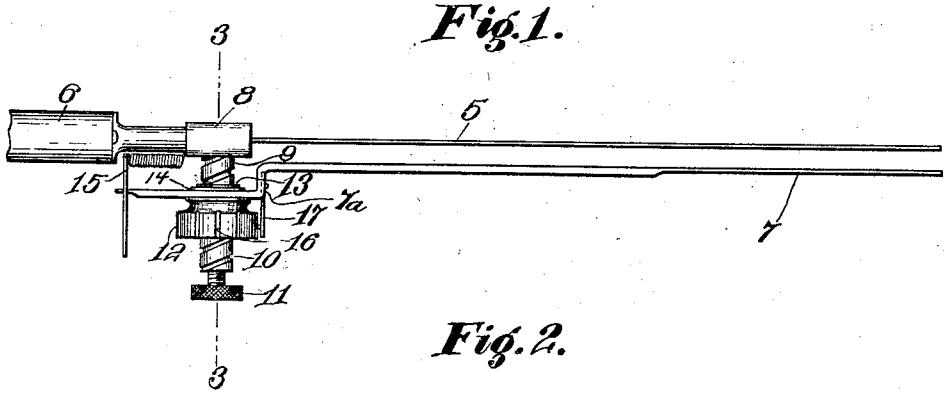

Fig. 2.

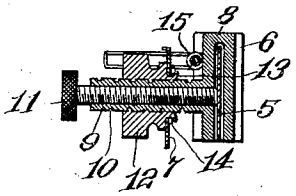

Fig. 3.

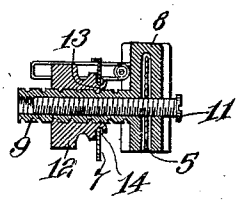

Fig. 4.

Witnesses

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ATTACHMENT FOR KNIVES.

1,069,189. Specification of Letters Patent. Patented Aug. 5, 1913.

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To all whom it may concern:

Be it known that I, ELMER A. SALTZMAN, a citizen of the United States, residing at Noble, in the county of Washington and State of Iowa, have invented certain new and useful Improvements in Attachments for Knives, of which the following is a specification.

This invention relates to improvements in the knife attachment shown in my Patent No. 1012717, dated December 26, 1911, said attachment being designed to gage the thickness of the slices to be cut by a knife.

It is the object of the present invention to provide a novel and improved means for adjusting the gage relative to the knife-blade, and to this end the invention consists in a combination and arrangement of parts to be hereinafter described and claimed.

In the accompanying drawing forming a part of this specification, Figure 1 is an elevation showing the application of the invention. Fig. 2 is an edge view. Fig. 3 is an enlarged cross-section on the line 3—3 of Fig. 2. Fig. 4 is a cross-section showing a slight modification.

Referring specifically to the drawing, 5 denotes the blade, and 6 the handle of the knife to which the gage attachment is applied. The gage, proper, is a flat blade 7 which is mounted parallel alongside the knife-blade and is adjustable toward and from the same. Said gage blade is offset at 7^a toward the knife blade, which makes it possible to cut a very thin slice.

The following attaching and adjusting means for the gage-blade 7 are provided: Over the knife-blade 5 is slipped a U-shaped member 8 having on one side a projecting stem 9 which is externally threaded by means of a spiral groove 10. The stem has a threaded bore which is continued through the side of the member 8 from which the stem projects, and into which bore is screwed a set screw 11 of sufficient length to pass through the bore and have its inner end engage one side of the blade 5 as shown in Fig. 3, whereby the member 8 is fastened to said blade.

In the modified structure shown in Fig. 4 the set screw 11 passes from the opposite side of the member 8 through the blade 5, and then into the bore of the stem 9. On the stem 9 is mounted, to travel thereon, a nut 12 having a thread to fit the groove 10, so that by turning the nut, it will be caused to travel on the stem toward and from the knife-blade 5. The nut carries the gage-blade 7. The inner end of the nut 12 is reduced in diameter and thinned out as indicated at 13, on which portion the gage-blade 7 is mounted, said blade having an aperture through which the reduced portion of the nut passes. The blade abuts on one side against a shoulder formed by the part 13, and on the other side against a washer 14 mounted on said part and held in place by upsetting the latter against the washer, as clearly shown in Fig. 3. The gage-blade is loose on the part 13 and the nut may therefore be rotated without swinging said blade around as will be presently described. The butt-end of the gage-blade 7 is connected to a spring 15 which tends to swing said blade in a direction to bring its lower edge slightly below the cutting edge of the knife-blade 5. In the surface of the nut 12 are longitudinal grooves 16 which are engageable by a spring finger 17 carried by the gage-blade 7, whereby, said blade is coupled to the nut and prevented from swinging on the nut until the spring finger is disengaged.

In operation, the spring finger 17 being in engagement with one of the grooves 16, the knife is operated in the ordinary manner to cut a slice of bread, or anything else. The gage-blade 7 is adjusted so as to be spaced from the knife-blade 5 a distance corresponding to the desired thickness of the slice to be cut. The gage-blade, as already described, normally extends below the cutting edge of the knife-blade, and therefore reaches the cutting board, or table on which the loaf of bread rests, first. As soon as the edge of the gage-blade reaches the cutting board or table, the downward pressure on the knife-blade being continued, the gage-blade swings upward against the tension of the spring 15 and as said blade is coupled to the nut 12, the latter turns on the stem 9. The groove 10 runs in such a direction that this turning movement of the nut backs the same away from the knife-blade, and the gage-blade is therefore also carried away from the slice which has been cut, and the latter is therefore not clamped between the blades but is at once released. Upon removing the knife for a new cut, the spring 15 restores the gage-blade to its normal position.

In order to adjust the gage-blade 7 according to the desired thickness of the slice,

said blade is uncoupled from the nut 12, and the latter is rotated, which brings it close to or farther from the knife-blade 5 according to the direction the nut is turned, and as the gage-blade is now not coupled to the nut, it will not swing with the nut but will move bodily along with it toward and from the knife-blade. After the adjustment is made, the gage-blade is again coupled to the nut. This feature is a decided improvement over my patent hereinbefore mentioned, in which the gage-blade has to be rotated to adjust it relative to the knife-blade.

I claim:

1. A gage attachment for knives comprising an attaching member, a threaded stem carried by said member and extending outward from the knife, a nut screwed on the stem, a gage-blade loosely mounted on the nut, and means for fastening the gage-blade to the nut.

2. A gage attachment for knives comprising an attaching member, a threaded stem carried by said member and extending outward from the knife, a nut screwed on the stem and having a reduced portion forming a shoulder, a gage-blade loosely mounted on the reduced portion of the nut against the shoulder, a washer mounted on the reduced portion against the gage-blade, said reduced portion being upset to retain the washer, and means for locking the gage-blade to the nut.

3. A gage attachment for knives comprising an attaching member, a threaded stem carried by said member and extending outward from the knife, a nut screwed on the stem and having a grooved surface, a gage-blade carried by the nut, and a spring finger carried by the gage-blade and engageable with the grooves of the nut to couple the gage-blade and the nut together.

4. A gage attachment for knives comprising an attaching member, a stem carried by said member and extending outward from the knife, a gage-blade, a rotatable support for the gage-blade mounted on the stem, on which support said gage blade is loosely mounted, means for adjusting the support toward or from the knife-blade when said support is rotated, and means for coupling the gage-blade to the support.

5. A gage attachment for knives comprising an attaching member, a threaded stem carried by said member, a gage-blade, a support for the gage-blade screwed on the stem, on which support said gage blade is loosely mounted, and means for coupling the gage-blade to the support.

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

ELMER A. SALTZMAN.

Witnesses:
F. A. MORGAN,
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