S. ARAKI.

BUTTER CUTTER.

APPLICATION FILED MAR. 31, 1915.

1,144,282. Patented June 22, 1915.

Fig. 1

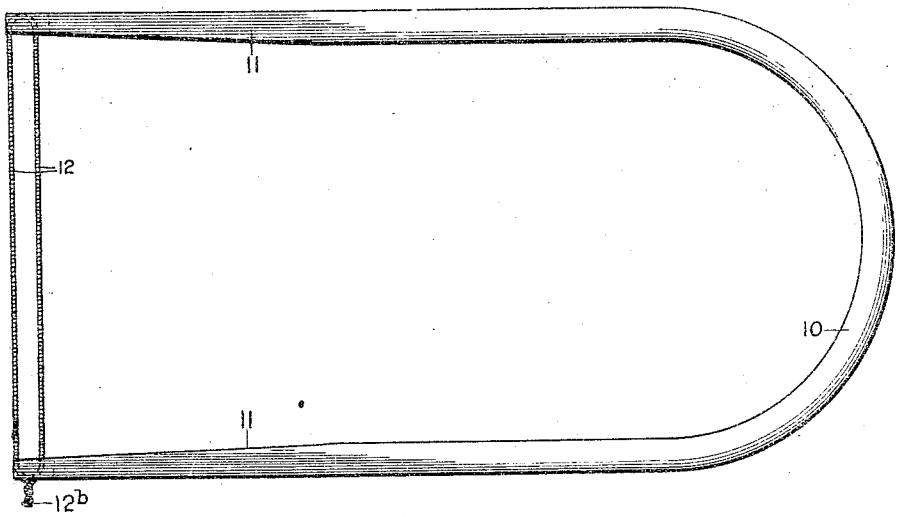


Fig. 2

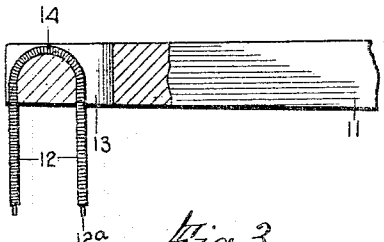


Fig. 3

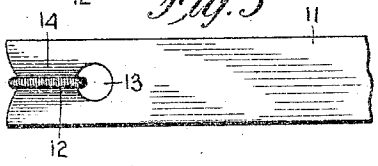
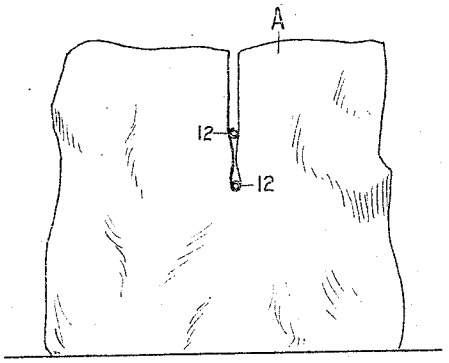


Fig. 4



WITNESSES

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BUTTER-CUTTER.

1,144,282. Specification of Letters Patent. Patented June 22, 1915.

Application filed March 31, 1915. Serial No. 18,266.

To all whom it may concern:

Be it known that I, SHUZOBURO ARAKI, a citizen of Japan, and a resident of Fromberg, in the county of Carbon and State of Montana, have invented a new and Improved Butter-Cutter, of which the following is a full, clear, and exact description.

My invention relates to a machine or device for cutting butter into subdivisions of any desired size, and more particularly the invention is designed for subdividing the butter into individual portions for serving.

The use of wire as a cutting element in various machines for cutting plastic or more or less soft material, is well known, and widely practised, smooth wire being employed. Cutters of this character, however, are ineffective for the proper cutting of butter, in that they fail to produce a clean, smooth cut, so that individual portions produced by said cutters are far from being presentable in appearance. I am enabled, by my improved butter cutter equipped with a wire or wires presenting minute, close coils, to effect a clean, smooth cut, which is desirable for the appearance of individual portions.

The wires, according to my invention, are stretched singly, or in any desired number in a suitable frame, according to the capacity of the machine and its adaptation to household use, or to hotel or restaurant purposes.

The invention will be particularly explained in the specific description following.

Reference is had to the accompanying drawings forming part of this specification, in which similar characters of reference indicate corresponding parts in all the views, and in which:

Figure 1 is a side elevation of a butter cutter employing my invention in a form suitable for household use; Fig. 2 is a detail, partly in section, showing the manner of supporting the wire cutter on its frame; Fig. 3 is an end view of the elements shown in Fig. 2; and Fig. 4 is a diagrammatic view of the cutter elements in the operation of cutting butter.

In the form shown, which is adapted for household purposes, a bowed frame 10 presents side arms 11 which in practice are resilient, so that they may be slightly sprung toward each other, and normally will tend to spread apart, to hold the wires taut. The cutting medium of my invention consists of a strand or strands of wire stretched between the arms 11, at the free ends of the latter, and maintained under tension by the resiliency of said arms.

The wire 12 is of a form presenting close, minute coils at the exterior, the coils being formed around a fine core 12^a Fig. 2. The coils and core are exaggerated in the illustration, the coils in fact being invisible, or scarcely visible to the naked eye. I find that wire of the described character produces a clean, smooth cut in butter, whereas smooth wire produces a rough cut, making the portions of butter undesirable and unattractive in appearance.

Advantageously each cutting unit is composed of two parallel strands 12, one behind and spaced from the other and in alinement therewith, so that the rear one follows the forward one in making the cut in a block of butter A in the manner indicated in Fig. 4. I prefer to form the two strands of a single piece of wire, which is return bent. Each arm is formed with a transverse hole 13 adjacent to the free end thereof, for the passage of one stretch of wire, while the parallel stretch passes transversely of the arms 11 at the front end thereof. The back surface 14 of each arm 11, against which the wire presses, is rounded to conform to the bend of the wire. The free ends of the wire adjacent to one arm may be fastened in any suitable manner, as by twisting the same together as at 12^b Fig. 1.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. A cutter of the character described, comprising a frame and a cutting element thereon, consisting of a strand of wire presenting minute, close coils on the surface.

2. A cutter of the character described, comprising a frame and parallel stretches of cutting elements thereon, one element arranged behind the other and spaced therefrom in alinement therewith, the said cutting elements presenting close, minute coils on the surface.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SHUZOBURO ARAKI.

Witnesses:

H. C. RAMSEY,

M. I. TUTTLE.