

No. 730,792.

PATENTED JUNE 9, 1903.

N. A. OLIVER.
COMBINED BISCUIT AND DOUGHNUT CUTTER.
APPLICATION FILED FEB. 7, 1903.

NO MODEL.

FIG. 2-

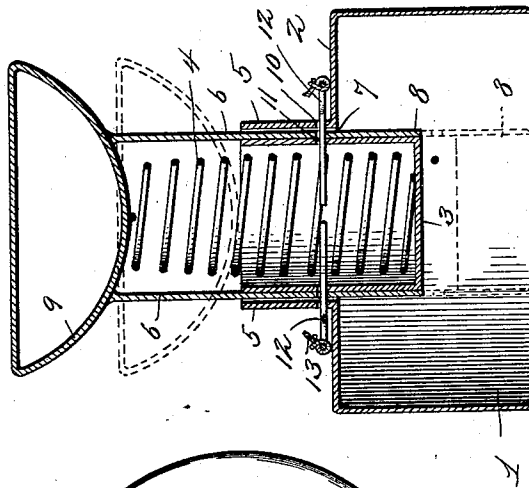


FIG. 3-

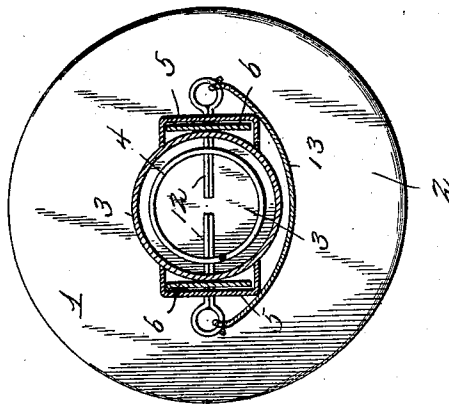
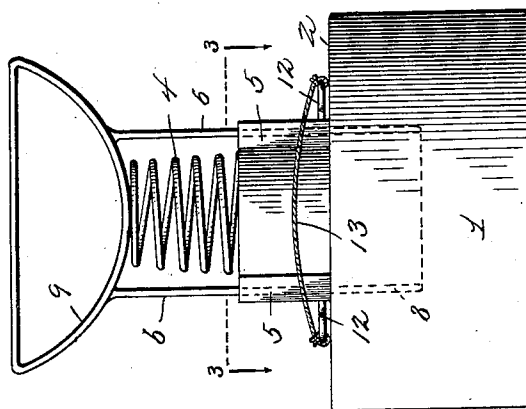


FIG. 1.



Inventor.

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Witnesses

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UNITED STATES PATENT OFFICE.

NATHAN A. OLIVER, OF MATTAPOISETT, MASSACHUSETTS.

COMBINED BISCUIT AND DOUGHNUT CUTTER.

SPECIFICATION forming part of Letters Patent No. 730,792, dated June 9, 1903.

Application filed February 7, 1903. Serial No. 142,399. (No model.)

To all whom it may concern:

Be it known that I, NATHAN A. OLIVER, a citizen of the United States, residing at Mattapoisett, in the county of Plymouth and State of Massachusetts, have invented new and useful Improvements in a Combined Biscuit and Doughnut Cutter, of which the following is a specification.

My invention relates to new and useful improvements in a combined biscuit and doughnut cutter; and its object is to provide a device of this character which may be readily converted from a biscuit-cutter to a doughnut-cutter and which has means for cutting and removing the central portion of the doughnut.

The invention consists in providing a cylindrical body portion, the lower edge of which is adapted to cut the biscuit or doughnut from the surrounding dough. Slidably mounted within the top of the body portion is a small cylindrical cutter, which is normally removed from the lower edge of the body and incloses a device which is employed for removing from said small cutter any dough which may accumulate therein.

The invention also consists in the further novel construction and combination of parts hereinafter more fully described and claimed, and illustrated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is a side elevation of my improved cutter. Fig. 2 is a vertical transverse section therethrough, and Fig. 3 is a section on line 3 3 of Fig. 1.

Referring to the figures by numerals of reference, 1 is a cylindrical cutter, the upper portion of which is closed, as shown at 2, and is provided at the center with a depending cylindrical portion 3, closed at the bottom and having a coiled spring 4 arranged therein and extending from the upper portion thereof. Guides 5 are arranged upon opposite sides of that portion of cylinder 3 which extends above the top 2, and within these guides are mounted slides 6, which extend through apertures 7, formed at the lower ends of the guides, and are connected at their lower ends to a ring 8, which incloses and is slidably mounted upon the cylinder 3. A handle 9 connects the upper ends of slide 6

and bears upon the upper end of spring 4. By means of this handle the slides may be forced downward, thereby removing the ring 8 from the lower end of cylinder 3, as shown in dotted lines in Fig. 2. Spring 4 is also compressed by this operation, and as soon as the handle 9 is released said spring will return the parts to normal position. Apertures 10 are formed in the guides 5 and in the opposite sides of cylinder 3. These apertures are in horizontal alinement, and apertures 11 are formed in the slides 6 and are adapted when said slides are in normal position to register with apertures 10. Pins 12 can be inserted in the apertures 10 and 11 and will hold the slides 6 against movement within the guides 5. These pins may be connected by means of a flexible strip 13 or in any other suitable manner.

When it is desired to use the device for cutting biscuits, the pins 12 are placed in engagement with slide 6, and the ring 8 is therefore prevented from traveling downward into the center of the biscuit. In cutting doughnuts the pins 12 are removed, and when the cutter is brought down upon the dough the ring 8 will be carried downward into the center of the doughnut, and as soon as the handle is raised that portion of the dough cut by the ring 8 will be carried upward until it is brought into contact with the lower end of cylinder 3, when it will be discharged automatically therefrom.

In the foregoing description I have shown the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing any of the advantages thereof, and I therefore reserve the right to make such changes as fairly fall within the scope of my invention.

Having thus described the invention, what is claimed as new is—

1. In a cutter of the character described, the combination with a body having a cutting edge; of a cutting-ring slidably mounted within the body and normally removed from the edge thereof, and means for locking the ring against movement within the body.

2. In a cutter of the character described, the combination with a body portion having a cutting edge; of a stationary cylinder de-

pending into said body portion and having its lower end closed, a cutting-ring slidably mounted upon the cylinder, and means for holding said ring normally removed from the cutting edge of the body.

3. In a cutter of the character described, the combination with a body portion having a cutting edge; of a cylinder depending within the body and having its lower end closed, a cutting-ring slidably mounted upon the cylinder, a handle, slides connecting the handle and ring, and a spring bearing at opposite ends upon the cylinder and handle, whereby the ring is held normally removed from the cutting edge of the body.

4. In a cutter of the character described, the combination with a body portion having a cutting edge; of a cylinder secured within

the center of said body and projecting thereinto, the inner end of said cylinder being closed, guides upon the cylinder, slides mounted within the guides, a ring connecting the lower ends of the guides, a handle connecting the opposite ends thereof, a spring within the cylinder and bearing upon the handle, whereby the ring is held normally removed from the cutting edge of the body, and means for locking the slides against movement within the guides.

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

NATHAN A. OLIVER.

Witnesses:

ROBERT HUMPHREY,
CALVIN M. PERKINS.