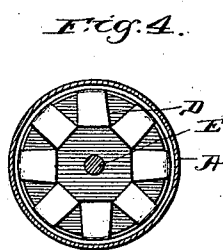
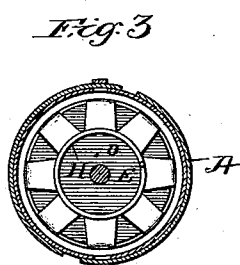
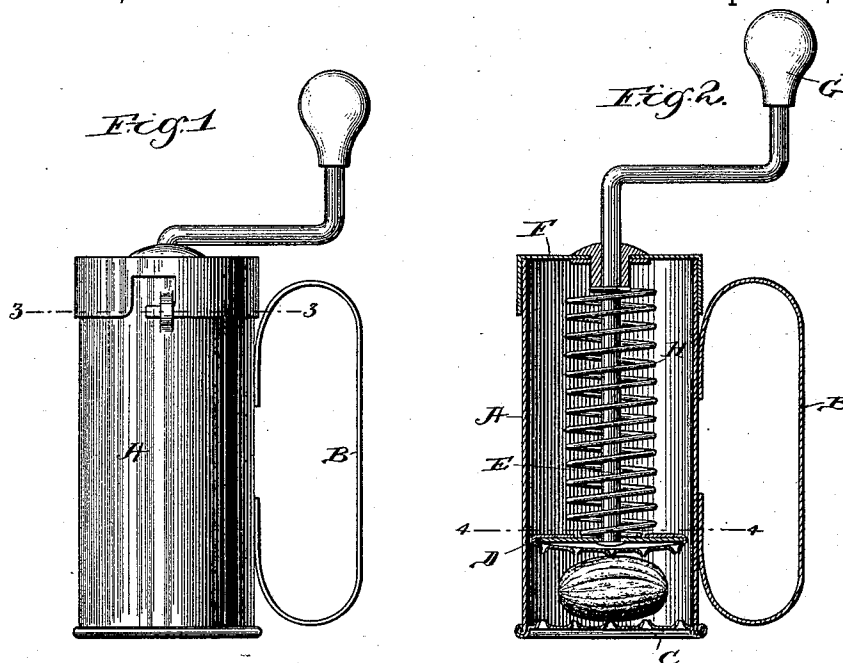


(No Model.)

F. E. ABBOTT.
NUTMEG GRATER.

No. 473,051.

Patented Apr. 19, 1892.



Witnesses.

Wm. M. Rheem.

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Attys.

UNITED STATES PATENT OFFICE.

FRANK E. ABBOTT, OF CHICAGO, ILLINOIS.

NUTMEG-GRATER.

SPECIFICATION forming part of Letters Patent No. 473,051, dated April 19, 1892.

Application filed September 6, 1890. Serial No. 364,190. (No model.)

To all whom it may concern:

Be it known that I, FRANK E. ABBOTT, a citizen of the United States, residing in the city of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Nutmeg-Graters, of which the following is a specification.

This invention relates to improvements in nutmeg-graters, and more particularly to that class known as "rotary" graters, in which the nutmeg is contained within a suitable casing and confined between a fixed and a rotary grating-surface, one of which constitutes a follower, which adjusts itself not only to the different-sized nutmegs, but also to the gradually-diminishing size of the nutmeg being operated upon.

The prime object of this invention is to have the follower subserve the further purpose of a rasping-disk, whereby the device is rendered more shapely and convenient of manipulation and use than where the rasping-disk and follower are separate.

Another object is to have the device simple, novel, and economical of construction and of such a character that the pressure on the rasping-disk may be varied at the will of the operator.

These objects are attained by the devices illustrated in the accompanying drawings, in which—

Figure 1 represents a side elevation of a nutmeg-grater embodying my invention; Fig. 2, a central vertical section thereof; Fig. 3, a horizontal section on the line 3 3 of Fig. 1, and Fig. 4 a similar section on the line 4 4 of Fig. 2.

Similar letters of reference indicate the same parts in the several figures of the drawings.

Referring by letter to the accompanying drawings, A indicates the casing of my grater, preferably cylindrical in form, having at one side thereof a handle B and at one end a fixed perforated head C, which constitutes one of the grating-surfaces. Within the cylinder or casing works a rasping-disk D, rigidly secured to the inner end of the crank-rod E, which works through and is journaled in a removable end cap F for the opposite end of the cylinder, this rod being bent into the form of

a crank at its outer free end and terminating in a handle G for convenience of manipulation. Between the cap F and the rasping-disk is confined a coiled spring H, the tension of which tends to normally force the rasping-disk toward the grating-cap C, and hence when a nutmeg is inserted between the rasping-disk and grating-head it will be held under sufficient pressure to thoroughly effect the grating thereof upon the rotation of the rasping-disk, which causes the nutmeg to roll about over the grating-head, the particles grated therefrom being discharged through the perforations in the head. Obviously the rasping-disk under the influence of the coiled spring will automatically adjust itself to the varying size, as well as the irregularities of the nutmeg, and will continue effective until the nutmeg is entirely grated, the crank portion of the rod E occurring at such points that when in its extreme inner position the rasping-disk just clears the grating-head, and it is obvious that should the operator desire to increase the pressure of the rasping-disk upon the nutmeg over and above that furnished by the coiled spring it is only necessary to bear upon the handle of the crank-rod while rotating the same.

A grater constructed in accordance with my invention is simple and economical in its construction, not easy to get out of order, efficient in its work, and most convenient for use, its peculiar form especially adapting it for domestic purposes.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

In a nutmeg-grater, the combination, with the casing provided at one end with a grating-head and at the opposite end with a removable cap, of a crank-rod working through said cap, a rasping-disk secured to said rod, and a coiled spring confined on said rod between said disk and the removable cap, substantially as described.

FRANK E. ABBOTT.

Witnesses:

R. C. OMOHUNDRO,
W. R. OMOHUNDRO.