J. H. BOYE.

GRATE.

APPLICATION FILED FEB. 18, 1914.

1,111,356. **Patented Sept. 22, 1914.**

Fig. 1.

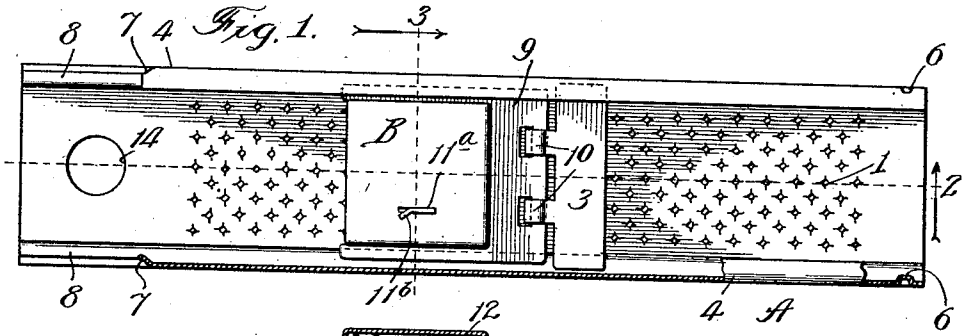


Fig. 2.

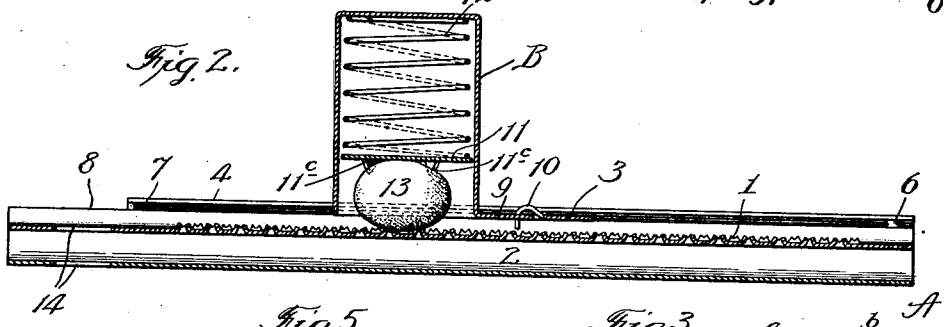


Fig. 5.

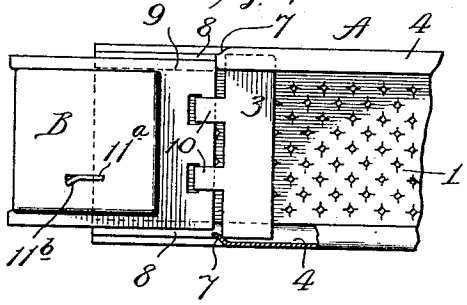


Fig. 3.

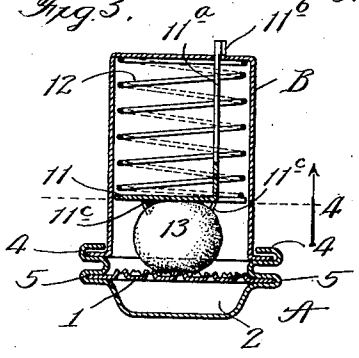


Fig. 6.

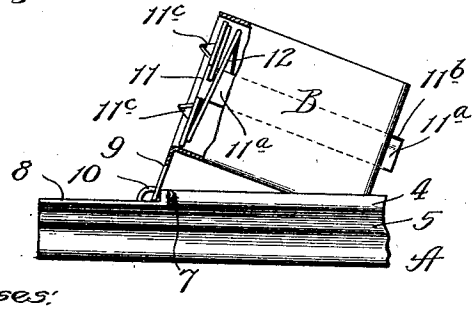
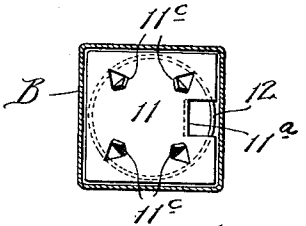


Fig. 4.



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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON D. C.

UNITED STATES PATENT OFFICE.

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GRATER.

1,111,356. Specification of Letters Patent. Patented Sept. 22, 1914.

Application filed February 18, 1914. Serial No. 819,382.

To all whom it may concern:

Be it known that I, JAMES H. BOYE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Graters, of which the following is a specification.

This invention relates particularly to graters adapted for grating nutmeg, or the like; and the primary object of the invention is to provide a device of this character which operates in an improved manner and which is quite sanitary.

The invention is illustrated in its preferred embodiment in the accompanying drawing, in which—

Figure 1 represents a plan view of a grater constructed in accordance with the invention; Fig. 2, a longitudinal vertical section taken as indicated at line 2 of Fig. 1; Fig. 3, a transverse vertical section taken as indicated at line 3 of Fig. 1; Fig. 4, a section through the housing or container in which is confined an article to be grated, the section being taken as indicated at line 4 of Fig. 3; Fig. 5, a broken plan view showing the container or nutmeg holder in position to be thrown open; and Fig. 6, a broken elevational view showing the nutmeg holder open, to enable a fresh nutmeg to be inserted.

In the preferred embodiment illustrated, A represents a base-member comprising a grater-plate or bar 1 which surmounts or forms the upper wall of a longitudinal-channel or collector-chamber 2; and B represents a container or nutmeg-holder which has pivotal connection with a slide 3 which works in longitudinal guides 4 which surmount the lateral portions of the grater-plate 1.

The sub-chamber 2 is preferably formed by bending a strip of sheet metal to afford a longitudinal channel, the lateral portions of the sheet metal strip being bent to afford longitudinal corrugations 5 in which the lateral margins of the grater-plate 1 are fixedly secured, and corrugations disposed above the corrugations 5 and affording the guides 4, as illustrated in Fig. 3.

The slide 3 works freely in the guides 4, between stops 6 at one end of the guides and stops 7 near the other end of the guides. The upper flanges of the guides 4 are cut away beyond the stop 7, as indicated at 8. The nutmeg-holder B has its lower portion equipped with a plate or flanges 9 which works freely in the guides 4. The plate 9 is joined, by pivotal connections 10, to the slide 3 and is somewhat narrower than the slide 3, so that said plate 9 can pass the stops 7 to permit the holder B to be swung to an open position. The holder B has closed sides and top and an open lower end. Within the holder is a follower 11 equipped with an upwardly-extending stem 11^a which extends through a guide-opening in the top wall of the holder. The stem is provided above the top wall of the member B with a stop 11^b which limits the downward movement of the follower and prevents the parts from becoming disassembled. Confined between the follower 11 and the top of the member B is a coil-spring 12. The follower 11 is provided with prongs or roughened portions 11^c adapted to engage the nutmeg 13.

The nutmeg is inserted when the holder B lies on its side in the manner shown in Fig. 6, the follower 11 being pressed back by the nutmeg. The member B is then swung to the vertical position and moved inwardly until its guide-plate 9 engages the guides 4. The operator, by taking hold of the member B, may work it back and forth in the guides 4. In this operation, the nutmeg is gated upon the roughened perforate plate 1, the gratings falling into the sub-chamber 2, from which they may be poured into a receptacle.

The follower 11 may be formed of tin or sheet metal, the stem 11^a being formed integrally therewith. In fact, the whole device may be formed of sheet metal or tin plate, as illustrated. The base A is shown provided at one end with a perforation 14 to enable the device to be hung up.

The foregoing detailed description has been given for clearness of understanding only, and no unnecessary limitation should be understood therefrom, but the appended claims should be construed as broadly as permissible in view of the prior art.

What I regard as new and desire to secure by Letters Patent is—

1. The combination with a grater-bar equipped with lateral guides, of a slide connected with said guides, and a holder pivotally connected with said slide and equipped with a follower.

2. The combination with a grater equipped with lateral guides, of a slide movable in said guides, means for preventing disen-

gagement of said slide from the guides, and a follower-equipped holder connected with said slide and adapted to be opened to admit a nutmeg, or the like, beneath the follower.

3. The combination with a grater equipped with lateral guides, of a slide movable in said guides, means for preventing disengagement of said slide from the guides, and a follower-equipped holder having a base-portion pivotally connected with said slide and adapted to work in said guides, said base-portion being withdrawable from said guides to permit tilting of the holder.

4. In a device of the character set forth, the combination of a grater-bar, guides surmounting the lateral portions thereof, said guides having their upper walls cut away at one end, a slide movable in said guides, and a follower-equipped holder having a base-portion pivotally connected with said slide and movable in said guides, said base-portion being withdrawable from the guides at the cut-away portions to permit the holder to be tilted.

5. In a device of the character set forth, the combination of a grater-bar with perforations therethrough, a sub-chamber affording a longitudinal channel beneath said grater-bar, lateral guides, a slide movable in said guides, and a nutmeg-holder pivotally connected with said slide and having a base-portion movable in and withdrawable from said guides.

6. In a device of the character set forth, the combination of a grater-bar equipped with lateral guides, of a slide movable in said guides, and a nutmeg-holder comprising a base-portion movable in said guides, side walls rising from said base-portion, and a top wall, a follower in said holder having a stem extending through a guide perforation in the top wall of the holder, and a spring confined between the follower and the top wall of the holder.

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In presence of—
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."