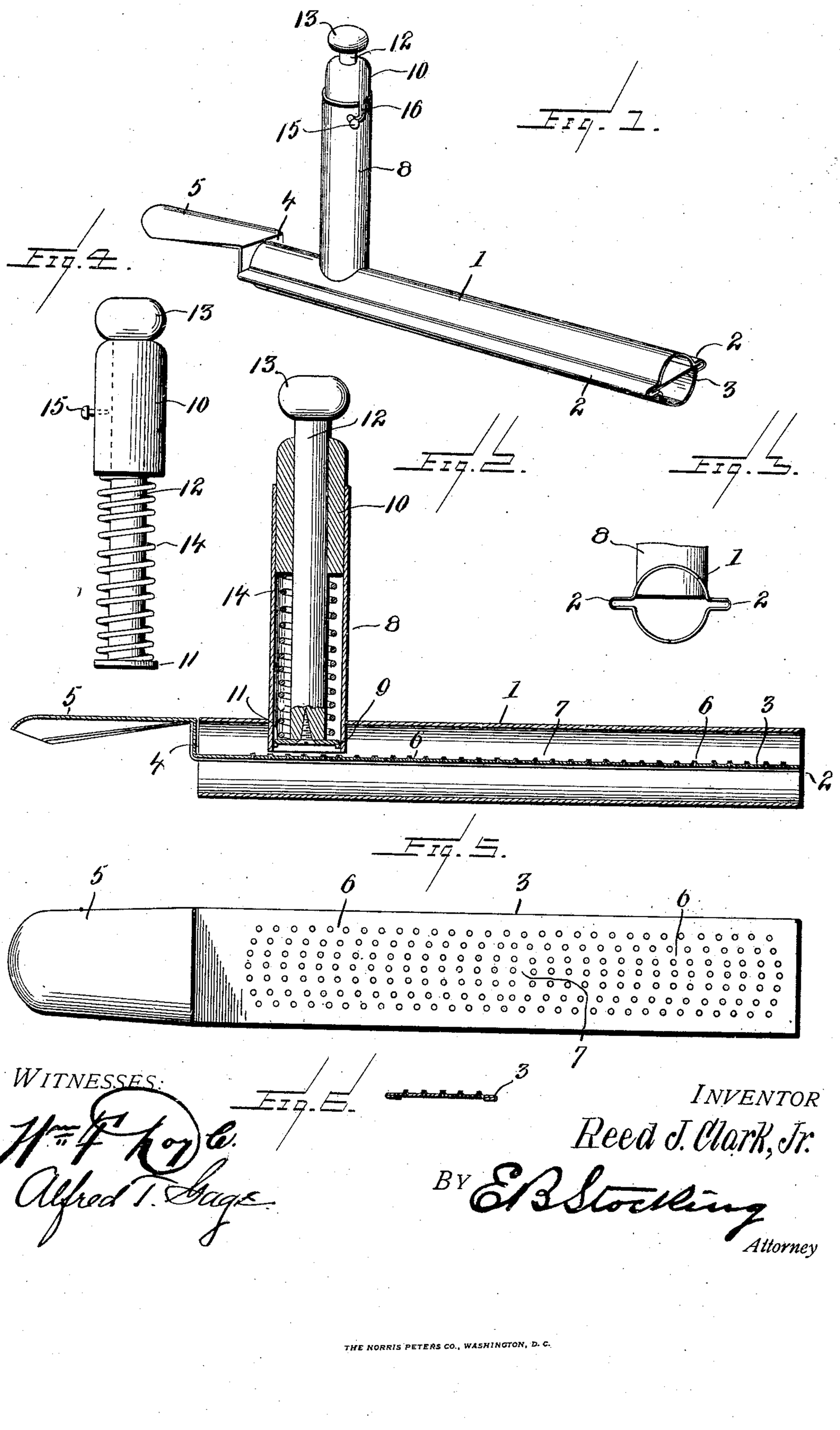
No. 865,763. PATENTED SEPT. 10, 1907.

R. J. CLARK, Jr.

NUTMEG GRATER.

APPLICATION FILED JUNE 1, 1906.



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NUTMEG-GRATER.

No. 865,763. Specification of Letters Patent. Patented Sept. 10, 1907.

Application filed June 1, 1906. Serial No. 319,781.

To all whom it may concern:

Be it known that I, REED J. CLARK, Jr., a citizen of the United States, residing at Youngstown, in the county of Mahoning, State of Ohio, have invented certain new and useful Improvements in Nutmeg-Graters, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a nutmeg grater, and particularly to a structure embodying a reciprocating grater plate.

The invention has for an object to provide an improved construction and arrangement of casing and grater plate whereby these parts may each be formed of a single piece of material, and are adapted to perform the most efficient and rapid grating action while containing and conveying the grated product toward the delivery end of the casing.

Another object of the invention is to provide an improved construction and arrangement of the automatic feeding device for the nutmeg by which the same is held under constant tension and is adapted to be introduced from the top of the holder.

Other and further objects and advantages of the invention will be hereinafter set forth and the novel features thereof defined by the appended claims.

In the drawing:—Figure 1 is a perspective of the invention; Fig. 2 is a longitudinal section therethrough; Fig. 3 is an end view of the case; Fig. 4 is a detail elevation of the feeding device; Fig. 5 is a top plan of the grater plate showing the disposition of the openings therein, and Fig. 6 is a cross section through this plate.

Like numerals of reference indicate like parts throughout the several views of the drawing.

The numeral 1 designates the casing of the grater which is adapted to be formed of a single piece of material and provided at its opposite sides with the recessed ways 2 in which the grater plate 3 is adapted to slide for the entire length of the casing. This casing may be oval, as shown, or any other desired configuration and provides ample space above and below the grater plate for the proper conduction of the grated material to the delivery end of the casing. This grater plate is also formed of a single piece of material having overturned side edges and an angularly disposed portion 4 at one end from which the hand hold 5 extends to permit a convenient operation of the plate. The perforations or apertures in this plate by which the grating surface is formed are disposed in a peculiar manner so as to secure the greatest efficiency in the grating action and are disposed in substantially curved lines, as shown at 6 at opposite sides of the center 7 of the plate. This improved arrangement of the grating openings produces a shearing cut in either direction of movement of the plate beneath the material and thus greatly increases the rapidity of the operation and the efficiency thereof.

The holder for the nutmeg or material to be grated comprises the casing 8 disposed at one side of the mid length of the casing 1 by which the most desirable length of travel of the grating plate is secured without permitting the end thereof to pass the material held in the casing. This casing is provided at its lower portion with the stop lug or flange 9 and at its upper open end with the removable cap 10 which carries the presser plate 11 by means of the stem 12 thereof passing loosely through the cap 10. This stem is provided at its upper end with the handle 13, and surrounding the lower end thereof is the tension spring 14 which presses at one end against the cap and at the other end against the presser plate 11. The cap 10 is adapted to be removably secured in the holder 8 in any desired manner, preferably by means of the pin 15 disposed in the bayonet slot 16 of the holder.

In the operation of the invention the cap with the presser plate may be completely removed from the holder and the nutmeg introduced therein when the cap is placed in position and secured to the holder so that the plate bears against the nutmeg under constant tension and holds the same in the path of travel of the grater plate. The particular construction of this plate as hereinbefore described secures the most rapid cutting or grating action and all of the grated material is contained within the casing so as to be discharged from the lower end thereof thus avoiding the scattering or wasting of the grated material. It will also be seen that the construction of the casing and the grater plate from a single piece of material embodies the utmost economy in their construction with efficiency in operation as the structure of the casing provides the ways for the grater plate which having the overturned edges is thereby stiffened so as to be maintained in a single plane. It will also be observed that the handle controlling the presser plate is free to be operated so as to withdraw the plate from the material at any time it may be desired.

The invention presents a simple, efficient and economical construction particularly adapted for household use.

Having now described my invention and set forth its merits, what I claim and desire to secure by Letters Patent is:—

1. In a grater, a cylindrical casing provided at opposite sides of its center with ways extended radially therefrom, a grater plate mounted to reciprocate with its side edges

embraced by said ways, and a holder disposed upon the upper surface of said casing and extended downward therethrough adjacent to said plate.

2. In a grater, a cylindrical casing provided at opposite sides of its center with ways extended radially therefrom, a grater plate provided with projections extended therethrough and disposed transversely on each side of the center in successive lines, the side edges of said plate being embraced by said ways, and a holder disposed upon the upper surface of said casing and extended downward adjacent to said plate.

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

REED J. CLARK, JR.

Witnesses:
ALFRED T. GAGE,
LEWIS HODGES.