

(No Model.)

J. W. HART.
NUTMEG GRATER.

No. 604,751.

Patented May 31, 1898.

Fig. 1.

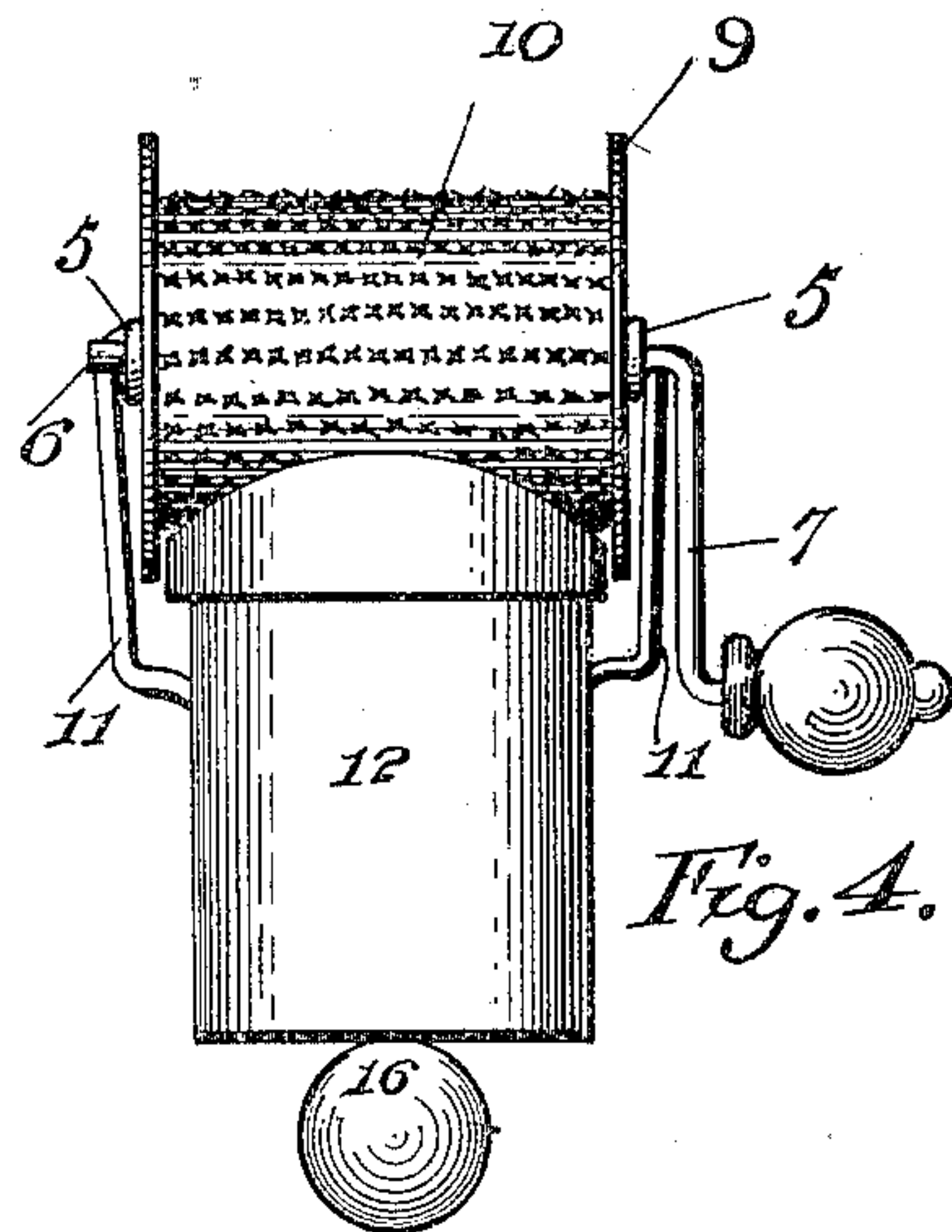
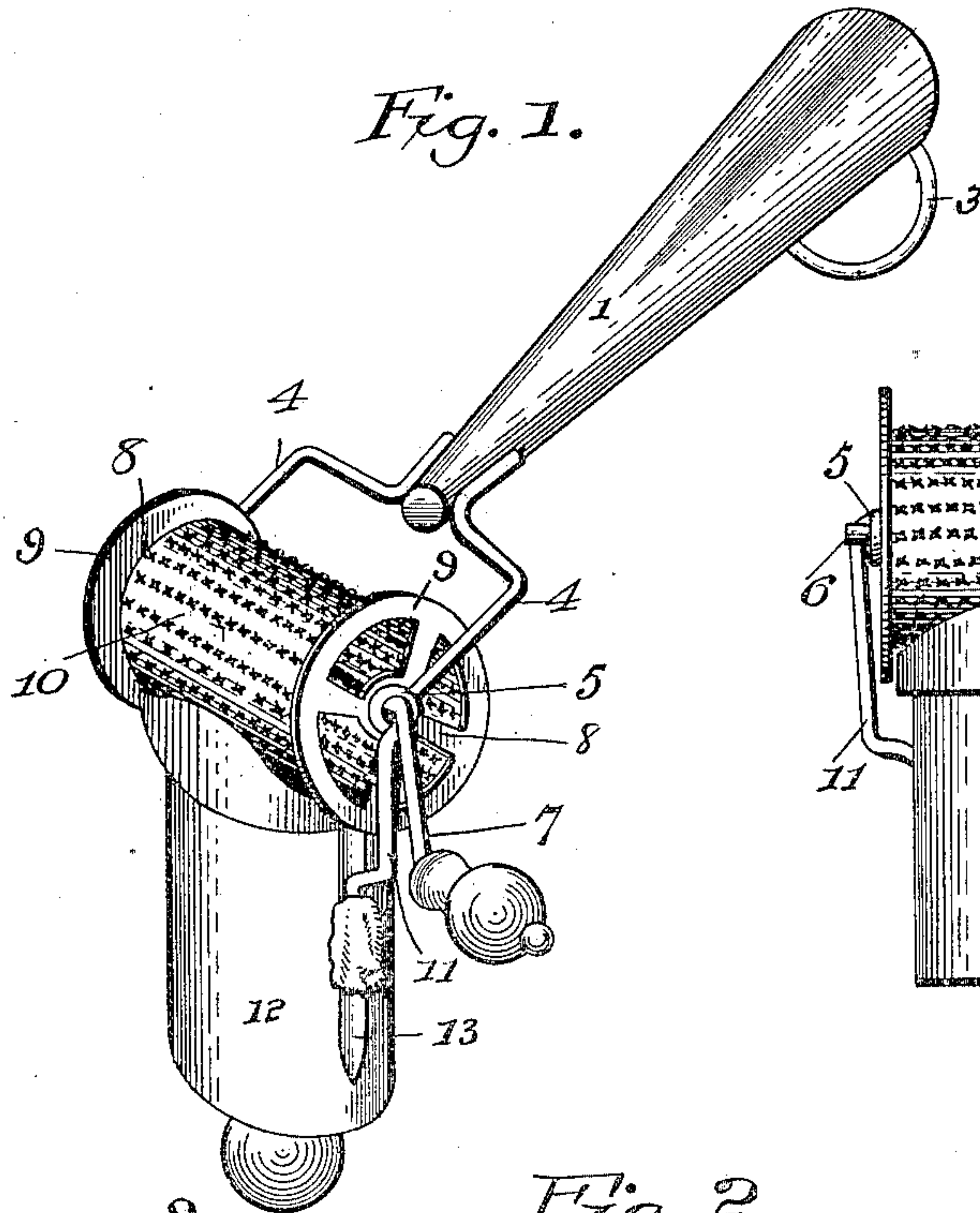


Fig. 4.

Fig. 2.

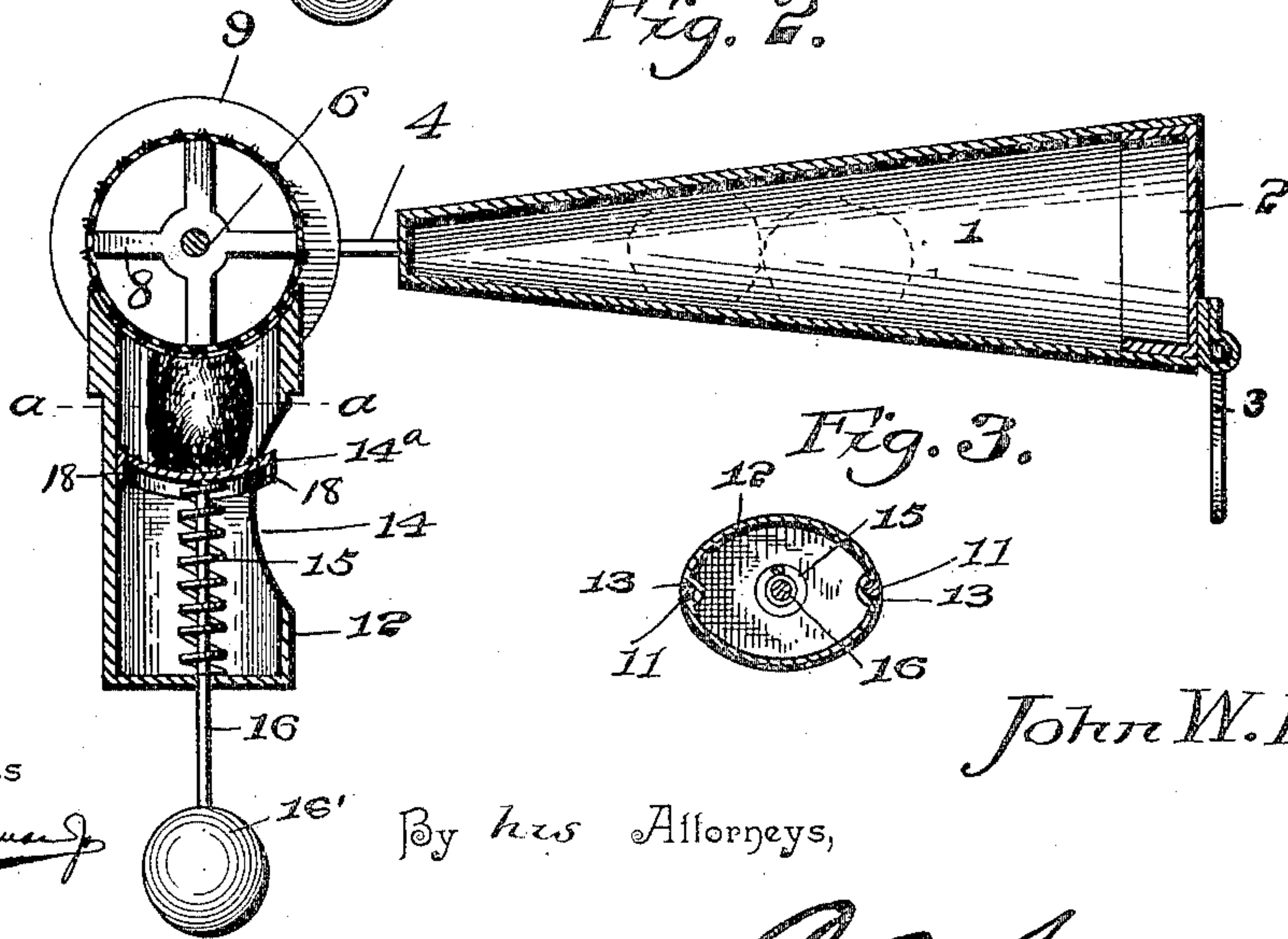
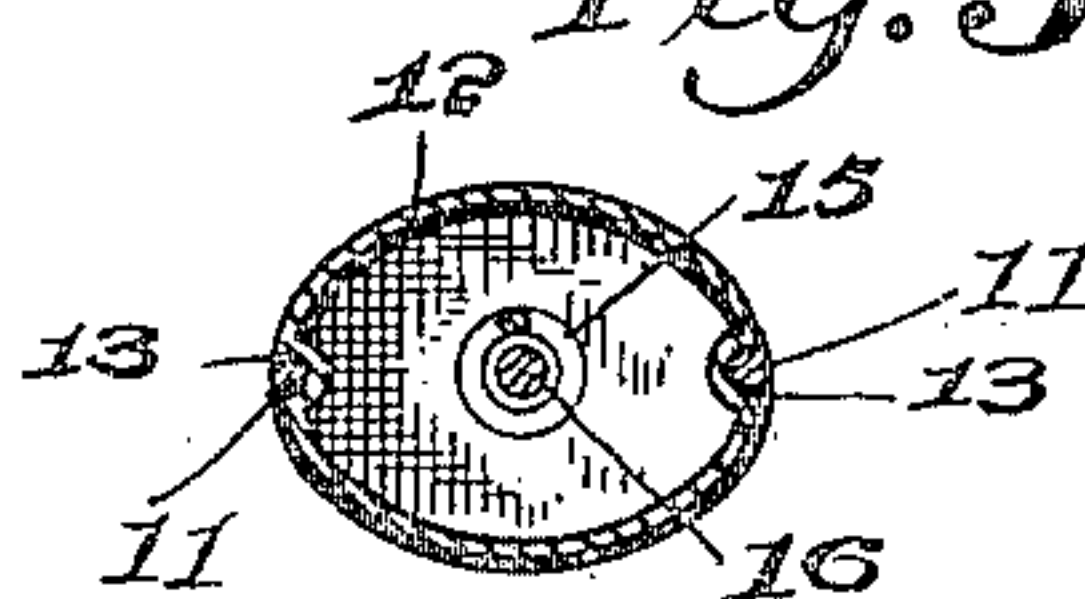


Fig. 3.



Inventor

John W. Hart.

Witnesses

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UNITED STATES PATENT OFFICE.

JOHN WILEY HART, OF PITTSBURG, KANSAS, ASSIGNOR OF ONE-HALF TO
WILLIAM J. KAEMMERLING, OF SAME PLACE.

NUTMEG-GRATER.

SPECIFICATION forming part of Letters Patent No. 604,751, dated May 31, 1898.

Application filed April 13, 1897. Serial No. 631,985. (No model.)

To all whom it may concern:

Be it known that I, JOHN WILEY HART, a citizen of the United States, residing at Pittsburg, in the county of Crawford and State of Kansas, have invented a new and useful Nutmeg-Grater, of which the following is a specification.

This invention relates to certain improvements in nutmeg-graters, and more especially in that class of such devices wherein the device is provided with a rotating grating device adapted to be operated by means of a crank; and the object of the invention is to provide a device of this character of a simple and inexpensive nature which shall have means for conveniently holding the nutmeg in position to be grated.

The invention consists in certain novel features of the construction, combination, and arrangement of the various parts of the improved nutmeg-grater whereby certain important advantages are attained and the device is made simpler, cheaper, and otherwise better adapted for use, all as will be herein-
after fully set forth.

The novel features of the invention will be carefully defined in the claims.

In order that my improvements may be the better understood, I have shown in the accompanying drawings a nutmeg-grater constructed according to my invention, in which—

Figure 1 is a perspective view showing the improved grater, and Fig. 2 is a sectional view taken through the device, showing the chambered handle and the means for holding the nutmeg while being grated. Fig. 3 is a sectional view taken in the plane indicated by the line *a a* in Fig. 2, and Fig. 4 is an end view of the improved grater.

The improved nutmeg-grater, as shown in the drawings, is provided with a handle 1, made from sheet metal in conical shape and forming within it a hollow or chamber, as clearly shown in the sectional view Fig. 2, in which chamber are adapted to be contained the nutmegs or other objects to be grated, as clearly shown in Fig. 2. The larger end of the handle 1 is provided with a stopper 2, fitting loosely therein and adapted to close said end of the handle, so as to hold the nutmegs in place, and this stopper 2 is provided

with a loop or ring 3, loosely pivoted upon it, by means of which the improved grater may be conveniently hung up.

On the smaller end of the cone-shaped handle 1 is fixed a rotative grating device, said device being mounted to turn in a yoke formed of a piece of wire secured at its central portion to the handle 1 at the smaller end thereof, said wire being bent to form parallel arms 4, the extremities of which are provided with loops or eyes 5, bent in them, these loops or eyes being alined with each other and adapted for the passage of a wire or rod 6, which forms a shaft, turning in said loops or eyes and carrying the rotative grating device, as will be hereinafter described. One end of the wire 6 is bent to form a crank 7, by means of which said wire or shaft may be conveniently rotated.

The grating device comprises end pieces 8 each in the nature of a spider, having arms radiating from the shaft or wire 6 and having a circular rim portion 9 concentric with said shaft. Between the end pieces or spiders 8 extends a drum 10, formed of sheet metal, having perforations produced in it in a well-known way, so as to form projecting cutters to grate the nutmeg. The arrangement of the parts is such that the rim portions 9 of the spiders or end pieces 8 project beyond the peripheral surface of the drum 10, as clearly shown in Fig. 4, so as to prevent the grated material from spreading and to cause the same to fall from the grating device in a more regular manner.

The device is provided with a holder for the nutmeg, this holder being supported over the grating device upon the extremities of the arms 4, wherein the shaft or wire 6 is mounted to turn, these extremities being upturned, as shown at 11, at right angles to the arms themselves. The holder for the nutmeg comprises a tubular casing 12, of sheet metal, having grooves 13 pressed into its opposite sides on its outer surface, in which grooves are seated the upper ends of the upwardly-bent extremities 11 of the wire of which the yoke is formed, and these ends of the wire are secured in place in the seats formed by said grooves by means of solder.

The casing 12 is formed with an opening 14

in its side adjacent to the handle 1 at right angles to which it extends, through which opening is adapted to be passed the nutmeg to be grated, and the lower part of said casing is bent so that the nutmeg arranged in it is adapted to bear at its under side upon the rotative grating device, the side portions of the casing being formed to project down over the surface of the drum of which the grating device is formed.

In the casing 12 is arranged a follower 14, having projecting teeth formed upon its under side and adapted to be pressed upon the nutmeg in the casing, so as to force the same down into engagement with the rotative grating device below the casing by means of a spring 15, coiled upon the stem 16 of the said follower, which stem extends up through an opening in the top of the casing and is formed with a knob or enlargement 16, so that the follower may be conveniently pressed against the tension of the spring. The arrangement of the knob or enlargement 16 is such that it forms a stop to limit the movement of the follower and prevent it from being forced down by the spring, so as to engage with the teeth of the rotative grating device, by which engagement the teeth of said device would be dulled. The grooves which are pressed in the opposite sides of the casing wherein the nutmeg is held while being grated project inwardly, as shown in Figs. 2 and 3, so as to form guides at opposite sides thereof, with which guides engage notches 17, formed in opposite sides of the follower, which follower is, as shown in the drawings, formed of sheet metal and provided with a turned-up flange 18 around its edges, in which flange the said notches are pressed.

In operation the nutmegs may be conveniently held in the hollow or chamber of the handle of the improved grater, and when it is desired to grate one of the nutmegs it may be removed from the said chamber of the handle and inserted through the opening in the side of the casing beneath the follower in place therein, said follower being at the time raised by means of its knob, so as to permit the nutmeg to be inserted in the casing, and when the follower is released it will act by means of its spring to press the nutmeg down through the open bottom of the casing into engagement with the teeth of the rotative grating

device, so that when the crank is turned to rotate said device the nutmeg will be grated, as will be apparent.

From the above description it will be seen that the improved nutmeg-grater is of an extremely simple and inexpensive nature and is especially well adapted for use, since it affords a convenient means for holding the nutmeg in position while the rotative grating device is being operated, and it will also be observed that the invention is capable of considerable modification without material departure from its principles and spirit, and for this reason I do not wish to be understood as limiting myself to the precise form and arrangement of the parts herein set forth.

Having thus described my invention, I claim—

1. In a rotary grater, the combination of a bail bent at points intermediate of its length and provided with journal-eyes or loops at its bent portion, a holder with the longitudinal beads forming grooves to receive the extremities of the bail, which beads extend into the holder and constitute the follower-guides, a handle rigid with the bail and lying at right angles to the holder, a drum journaled in the loops or eyes of the bail, a follower fitted in the holder and provided with a flanged, notched edge adapted to the guides formed by the beads, a headed stem attached to the follower, and a spring, substantially as described.

2. In a nutmeg-grater, the combination of a handle provided with a yoke having its sides extended and arranged at an angle to the handle, a casing adapted to receive a nutmeg and provided at opposite sides with grooves and having the extended portions of the yoke secured to it in said grooves, a grating-drum journaled within the yoke at the inner end of the casing, between the same and the handle, and provided with a crank-handle, and a spring-actuated follower mounted on the casing and adapted to hold a nutmeg against the grating-drum, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOHN WILEY HART.

Witnesses:

A. L. SWEET,
JAS. PATMOR.