

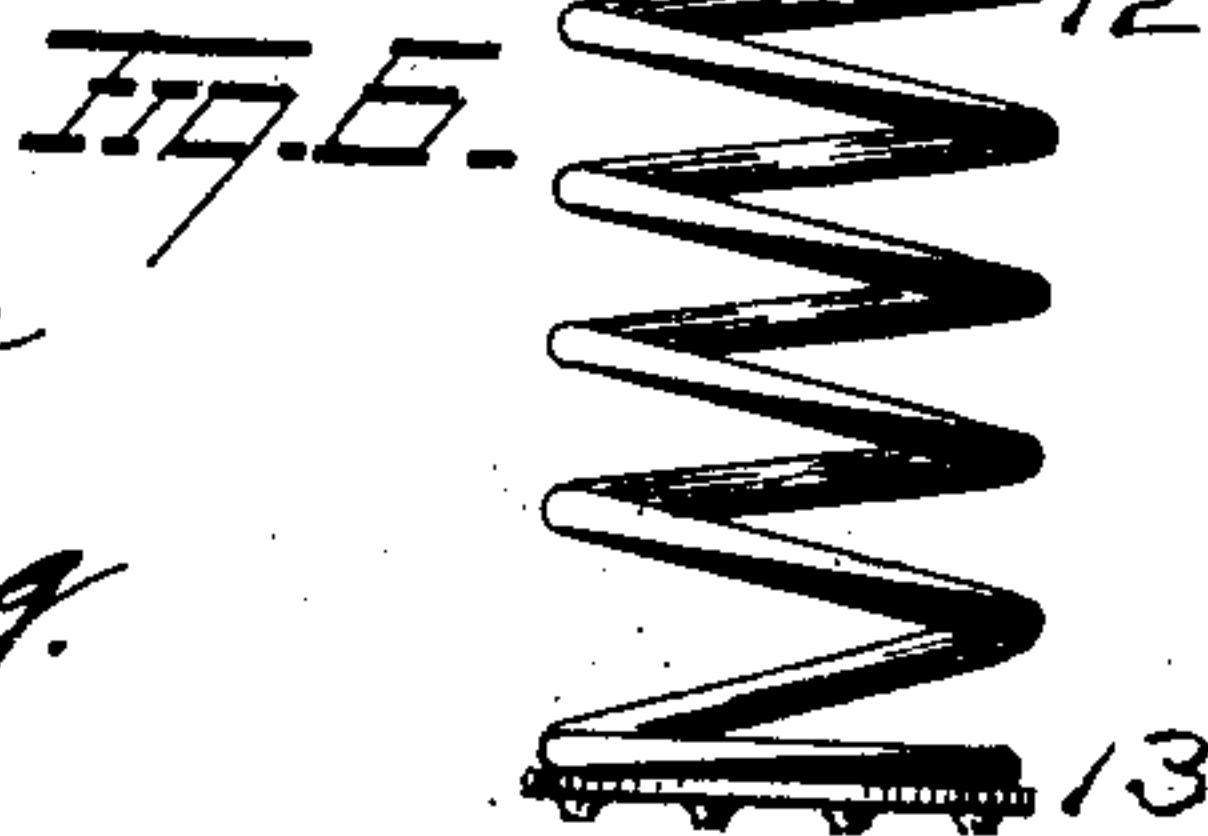
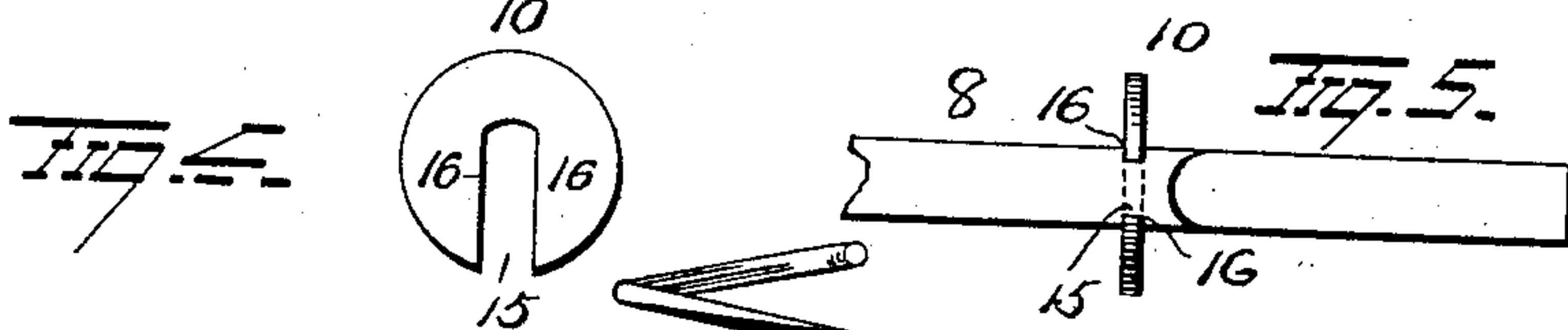
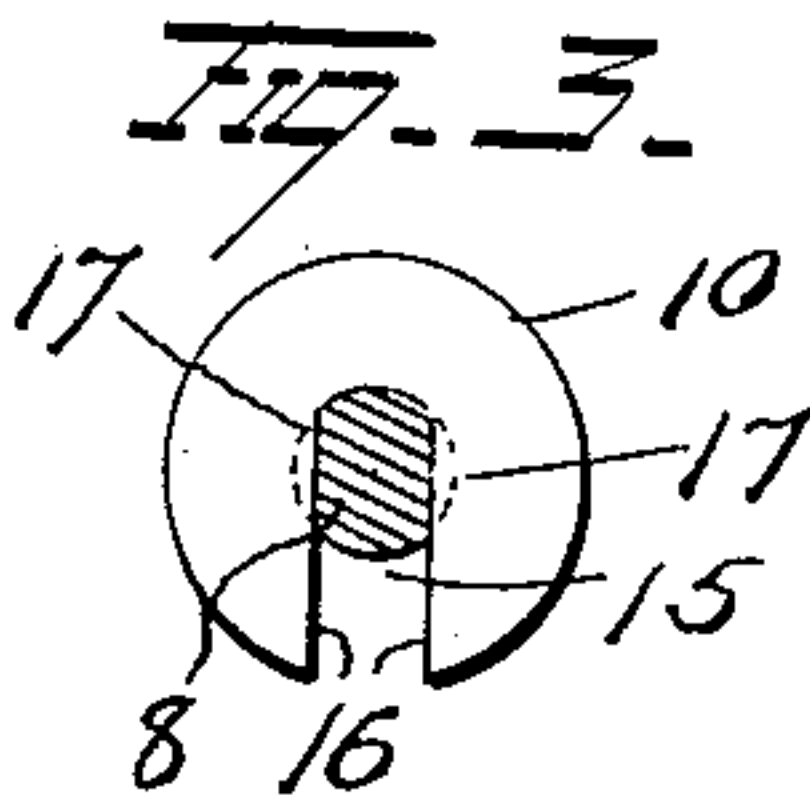
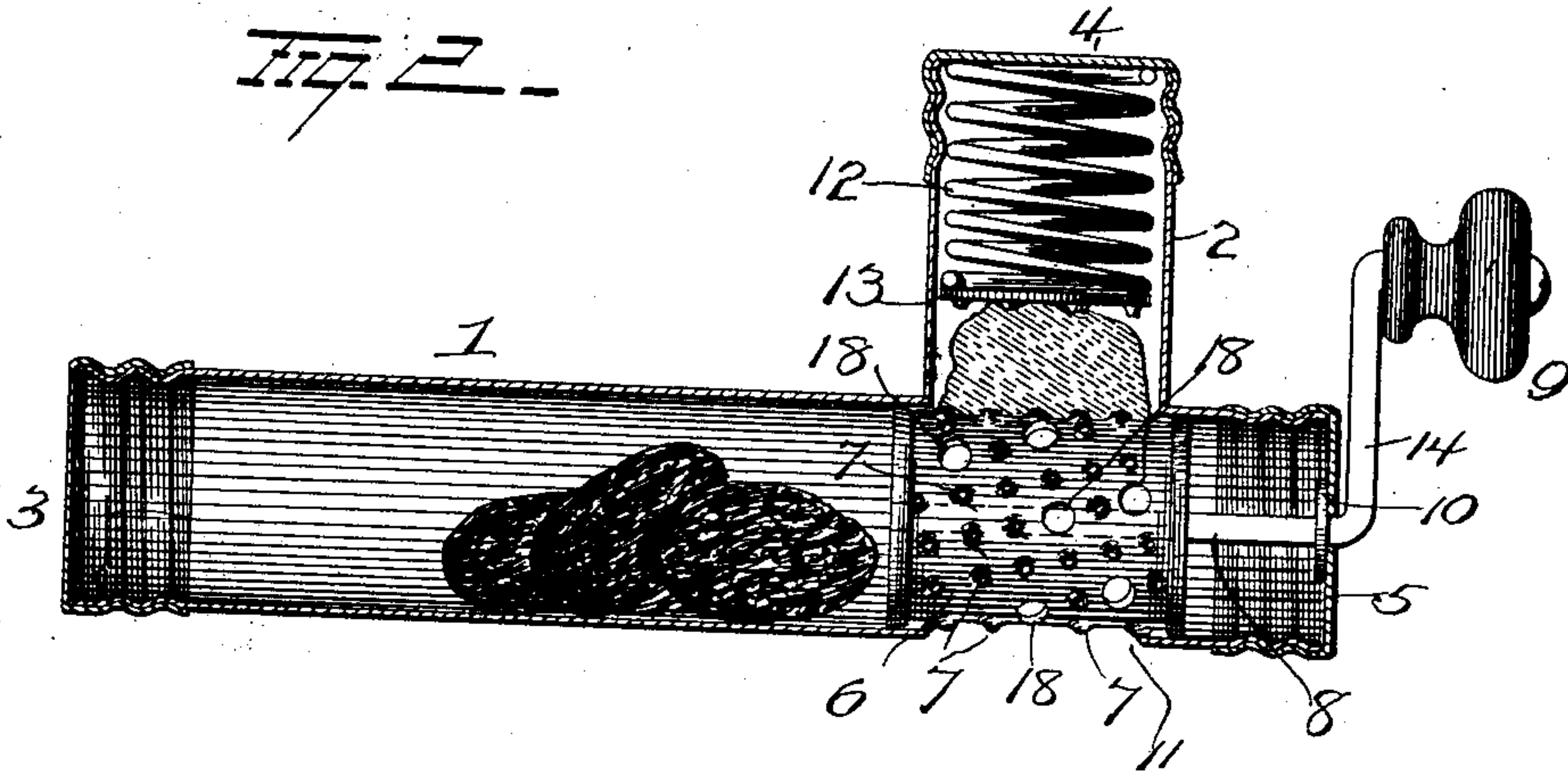
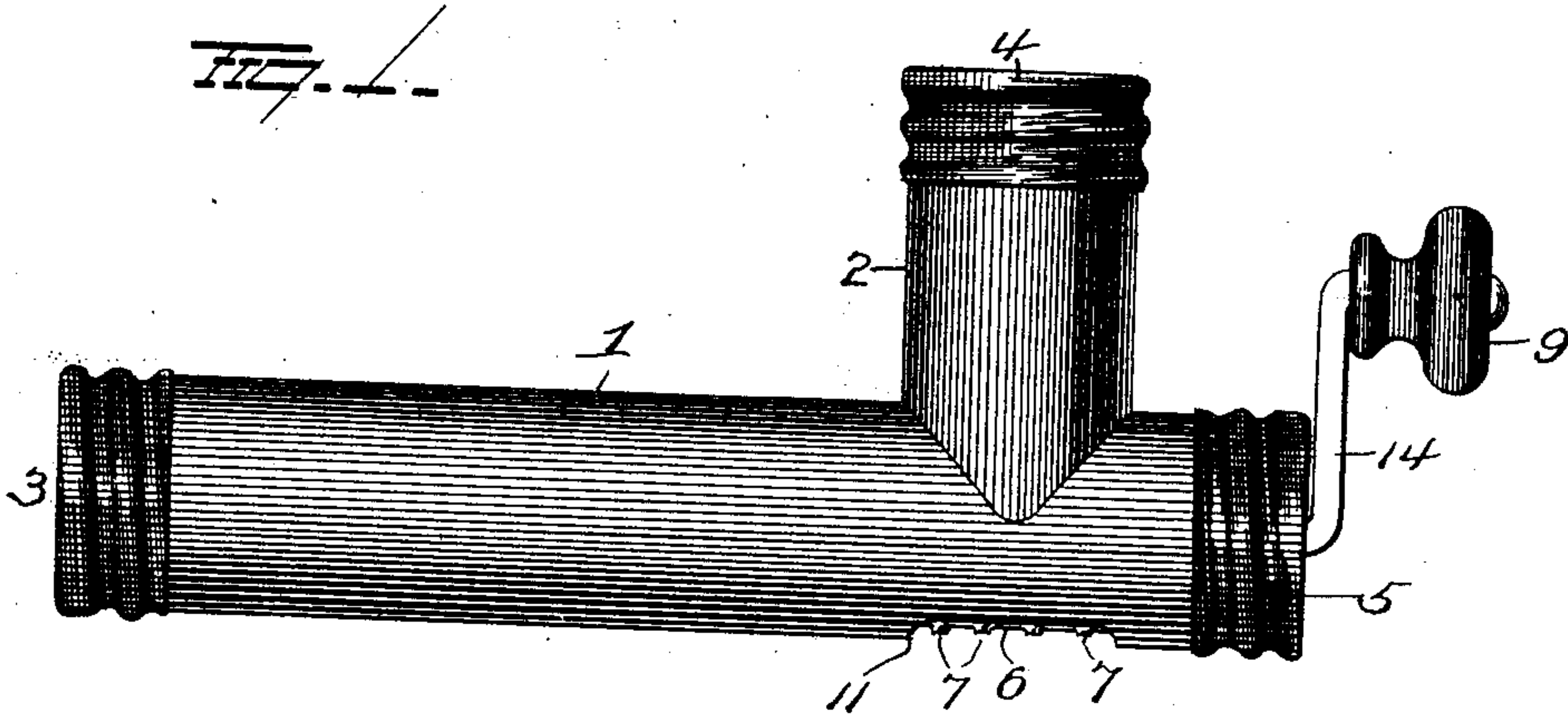
No. 762,497.

PATENTED JUNE 14, 1904.

F. E. SNYDER.
NUTMEG GRATER.

APPLICATION FILED JUNE 11, 1903.

NO MODEL.



WITNESSES
E. H. Matherham
G. F. Downing

INVENTOR
F. E. Snyder
By H. A. Seymour
Attorney

UNITED STATES PATENT OFFICE.

FRANK EDWARD SNYDER, OF MASSILLON, OHIO.

NUTMEG-GRATER.

SPECIFICATION forming part of Letters Patent No. 762,497, dated June 14, 1904.

Application filed June 11, 1903. Serial No. 161,079. (No model.)

To all whom it may concern:

Be it known that I, FRANK EDWARD SNYDER, of Massillon, in the county of Stark and State of Ohio, have invented certain new and useful
 5 Improvements in Nutmeg-Graters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

10 My invention relates to an improvement in nutmeg-graters, the object of the invention being to produce a nutmeg-grater which shall be simple in construction, light and convenient to handle, cheap to manufacture, durable
 15 in use, and which shall be effectual in all respects in the performance of its functions.

With these ends in view my invention consists in certain novel features of construction and combinations and arrangements of parts,
 20 as will be more fully hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in side elevation of my improved nutmeg-grater. Fig. 2 is a view in section of the
 25 same, and Figs. 3, 4, 5, and 6 are views of various details of construction.

1 represents a cylinder of any desired dimensions open at its ends and provided at a suitable point adjacent to one of said ends with
 30 an upwardly-projecting short cylinder 2, which latter is in open communication with cylinder 1. The ends of these cylinders are provided with screw-threads and are normally closed by the removable screw-caps 3, 4,
 35 and 5.

Located within cylinder 1, adjacent to the end thereof carrying cap 5, is a rotary cylinder or grater 6, having a roughened outer surface 7, the latter being formed by perforating
 40 said cylinder or grater in the usual manner. This cylinder or grater fits snugly within cylinder 1 and is rotated by means of the shaft 8. Shaft 8 has rigid connection at its inner end with cylinder or grater 6, from which latter
 45 it extends in an outward direction through a bearing formed in cap 5, thence downwardly along the outer face of said cap, and finally in an outward direction to form handle 9.

Cylinder or grater 6 is so located within cylinder 1 with respect to cylinder 2 that it com-

pletely covers the opening formed by the juncture of said cylinders 1 and 2, and to guard against any possibility of the cylinder or grater 6 moving laterally during its rotary movement and its consequent failure to at all times completely cover said opening I have located on
 55 shaft 8 a collar 10, adapted to normally rest against the inner face of cap 5, which, in connection with the downwardly-bent member 14 of the shaft 8, operates to prevent lateral movement of said cylinder or grater in either direction. Collar 10 is provided with a slot 15, the side walls 16 16 of which rest within the notches 17 17, formed in shaft 8, and is rigidly secured to the latter by solder. Cylinder
 60 or grater 6 also extends over an opening 11, formed in cylinder 1, at a point diametrically opposite the opening formed by the juncture of the latter with cylinder 2. This opening 11 constitutes the passage through which the
 65 ground nutmeg passes. Within cylinder 2 is located a spiral spring 12, the outer end of which when the spring is in its operative position bears against the inner face of cap 4, while the inner end thereof, which terminates
 70 adjacent to exposed surface of cylinder or grater 6, is provided with a roughened plate 13, between which and the roughened surface of said cylinder or grater the nutmeg to be ground is held. Thus it will be seen that
 75 the nutmeg is firmly held under pressure in contact with a portion of the roughened surface of cylinder or grater 6, and when the latter is rotated the feed of the nutmeg, due to the expansion of spring 12, will be continuous. 85

Cylinder or grater 6 is provided with a series of holes 18 for the outward passage of any of the ground nutmeg that might pass through the small openings made in the formation of the roughened surface 7. 90

By making cylinder 1 of a length greater than is necessary for the accommodation of cylinder or grater 6 a repository for the safe keeping of surplus nutmegs is provided as well as a firm grip for holding the device by
 95 the operator.

It is evident that changes in the construction and relative arrangement of the several parts might be made without avoiding my invention, and hence I would have it under- 100

stood that I do not restrict myself to the particular construction and arrangement of parts shown and described; but,

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

1. A nutmeg-grater comprising two cylindrical communicating shells, a removable cap on each end of one shell, a rotary grater
10 mounted in said last-mentioned shell, a crank-arm secured to said grater and mounted in the cap at one end of said shell, a slotted collar on said crank-arm between the cap on the end of the shell and the grater and a spring-
15 pressed roughened plunger in the other shell.

2. In a nutmeg-grater, the combination with a cylindrical shell having an opening near one end, of a rotary grater mounted within one end of said cylindrical shell in line with the
20 axis thereof and over said opening, a remov-

able cap on the other end of said shell, said cap and grater forming respective ends of a storage-receptacle, a second shell communicating with the first over the grater, and a spring-pressed plunger in said second shell. 25

3. In a nutmeg-grater, the combination with two communicating shells located at an angle to each other, of a rotary grater mounted in one of said shells, said grater having a roughened surface and also having a series of large
30 holes through which ground nutmeg can freely pass, and a spring-pressed plunger in the other shell.

In testimony whereof I have signed this specification in the presence of two subscrib- 35
ing witnesses.

FRANK EDWARD SNYDER.

Witnesses:

ARTHUR N. KELLY,
H. B. SIBILA.