

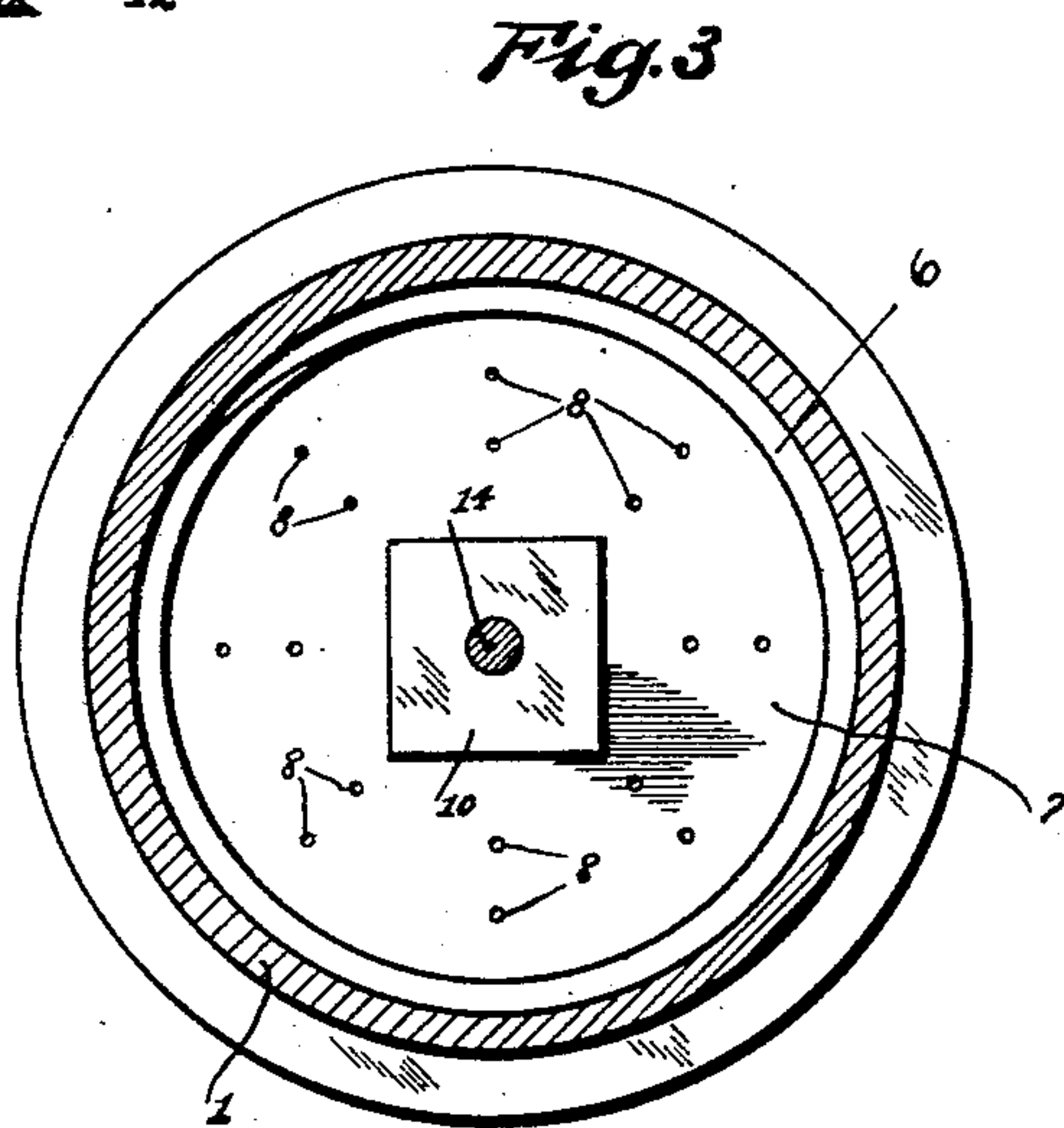
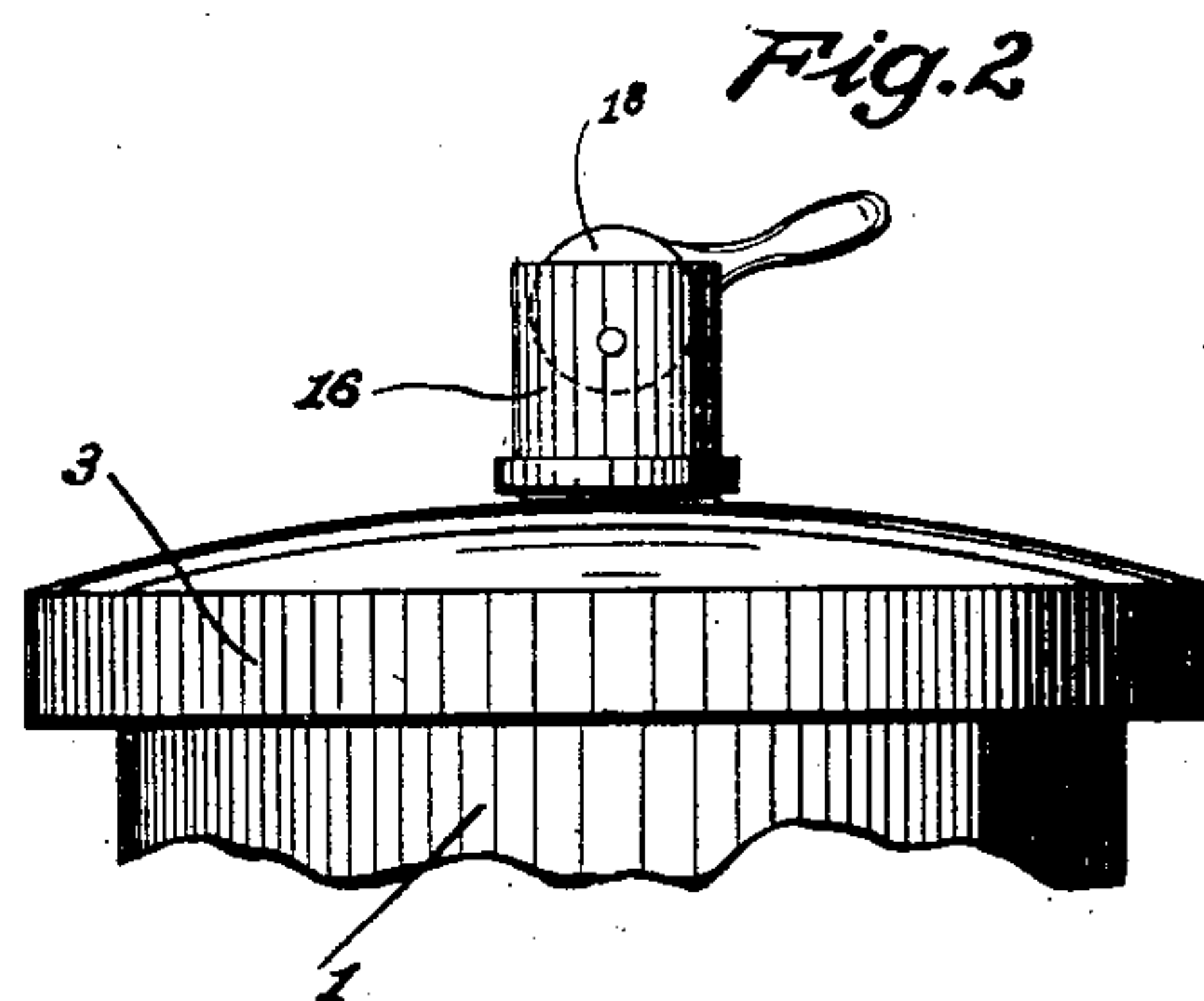
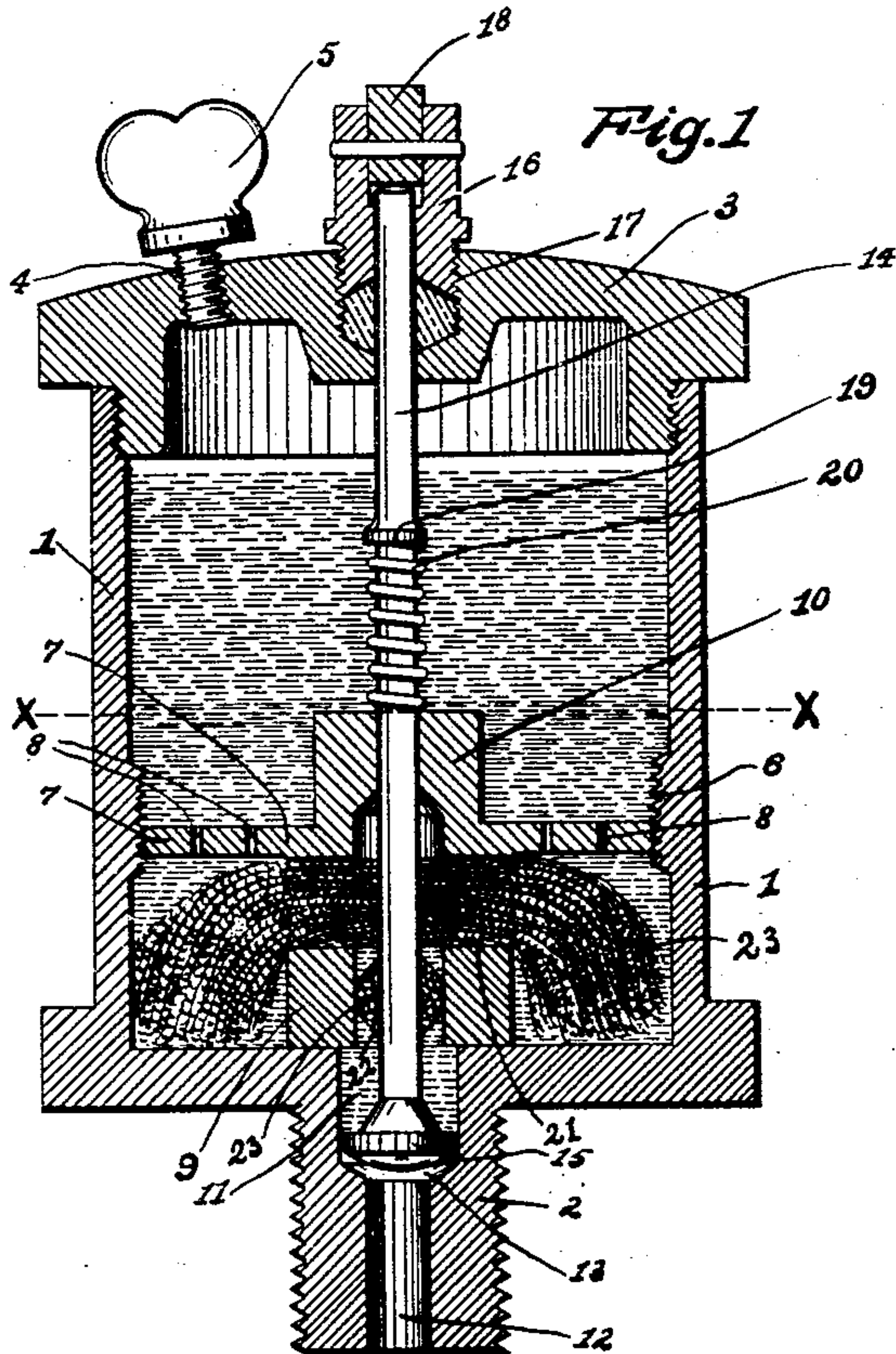
No. 713,439.

Patented Nov. 11, 1902.

C. E. HOTT.
OILING DEVICE.

(Application filed Feb. 17, 1902.)

(No Model.)



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CHARLES E. HOTT, OF COLUMBUS, OHIO.

OILING DEVICE.

SPECIFICATION forming part of Letters Patent No. 713,439, dated November 11, 1902.

Application filed February 17, 1902. Serial No. 94,441. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. HOTT, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a certain new and useful Improvement in Oiling Devices, of which the following is a specification.

My invention relates to the improvement of oiling devices; and the objects of my invention are to provide an improved oiling device comprising an oil-reservoir having improved means for filtering the oil and discharging the same continuously in desirable quantities and to produce certain improvements in details of construction and arrangement of parts which will be more fully pointed out hereinafter. These objects I accomplish in the manner illustrated in the accompanying drawings, in which—

Figure 1 is a central vertical section of my improved oiling device. Fig. 2 is a view in elevation of the upper end portion thereof, and Fig. 3 is a transverse section on line *x x* of Fig. 1.

Similar numerals refer to similar parts throughout the several views.

In carrying out my invention I employ a reservoir or oil-cup body 1, the otherwise closed lower end portion thereof having formed integrally therewith a downwardly-extending oil-discharge nozzle 2, which is preferably threaded externally. The upper open end of the cup-body 1 is adapted to be closed by a detachable threaded cap 3, which is formed with an oil-supply opening 4, the latter being adapted to be closed by a suitable threaded plug 5. The inner side of the cup-body 1 at a point preferably below the center of its length is threaded, as indicated at 6, and into this internally-threaded portion of said cup-body is adapted to be screwed the threaded periphery of a circular plate or disk 7, the latter being provided with suitable perforations, as indicated at 8. This plate or disk body 7 has formed on its central portion and lower side a downwardly-projecting tubular neck 9, the lower side of which bears upon the bottom of the cup 1. The disk 7 is also provided on its upper side and central portion with a squared or angular boss 10. The lower end of the disk-neck extension 9 communicates, as shown, with the enlarged upper por-

tion 11 of the vertical passage 12 of the outlet-nozzle 2, a valve-seat 13 being formed by the junction of the portions 11 and 12 of said passage.

14 represents a valve stem or rod which passes downward through central openings in the cap 3 and disk 7, thence through the disk extension 9 into the passage enlargement 11, where it carries on its lower end a valve-head 15. The upper end portion of the rod 14 extends through the lower end portion and into the central recess of a plug 16, which is screwed into a threaded opening 17 of the cap 3. Pivoted eccentrically within the recessed upper end portion of the plug 16 is the enlarged head of a cam-lever 18, which is adapted to be brought to bear and exert a pressure on the upper end of the rod 14. Between the shoulder 19 on said rod 14 and the upper side of the disk-boss 10 is interposed a spring 20, the tension of which normally retains the rod 14 in a raised position, so that the valve 15 is elevated from the seat 13.

In the construction of the downwardly-extending neck portion 9 of the disk 7 I form therethrough at right angles with each other and one above the other transverse openings 21 and 22, and through these openings are made to pass the central portions of strands of wicking or similar absorbent material, such as is indicated at 23, the outwardly-extending portions of said wicking strands serving to substantially fill the chamber which is between the disk 7 and the bottom of the cup 1.

The oil which is supplied to the cup through the opening 4 passes through the perforations 8 to the space beneath the disk 7, where it is taken up or absorbed in certain proportions by the wicking 23. Assuming that the lever 18 is so turned as to relieve the rod 14 from pressure and that the valve 15 through action of the spring 20 is elevated above the seat 13, it is obvious that the oil which drops or runs from the saturated wicking into the upper portion 11 of the passage 12 will find an outlet through the latter, and thus be carried to any part to be lubricated with which the threaded nozzle 2 is screwed into engagement.

It is obvious that while the saturated wicking will serve to retard the flow of the oil from the cup a sufficient quantity will drop or run therefrom to insure a continuous dripping of

the oil in comparatively small quantities, if desired, through the passage 12 and that in its passage through the wicking the oil will become cleansed and dirt or other foreign particles will be collected by said wicking. It will also be understood that when the lever 18 is thrown downward, so that its head exerts the proper pressure on the rod 14, the valve-head 15 will be closed against its seat 13 and the flow of the oil through the passage 12 discontinued. It will also be understood that by removing the cap 3, valve-rod 14, and disk 7 the wicking may be withdrawn and new wicking introduced when desirable. From the construction and operation herein described it will be seen that improved and superior means are provided for filtering oil and supplying it to a part to be lubricated in a substantially continuous and uniform manner. Having now fully described my invention,

what I claim, and desire to secure by Letters Patent, is—

In an oiling device the combination with a reservoir or cup-body 1 having a feed-opening in its upper portion and an outlet-opening in its lower portion, an internal partition-disk having openings therethrough and having a tubular neck 9 communicating with said cup-outlet, openings formed transversely in said neck and wicking or similar absorbent material passing through said neck-openings and extending within the lower portion of the cup-body, of a spring-actuated valve-rod 14 adapted to close said cup-outlet opening, substantially as specified.

CHARLES E. HOTT.

In presence of—

C. C. SHEPHERD,
W. L. MORROW.