

C. H. NEWTON.
OIL CUP,
APPLICATION FILED SEPT. 18, 1919.

1,331,663.

Patented Feb. 24, 1920.

Fig. 1

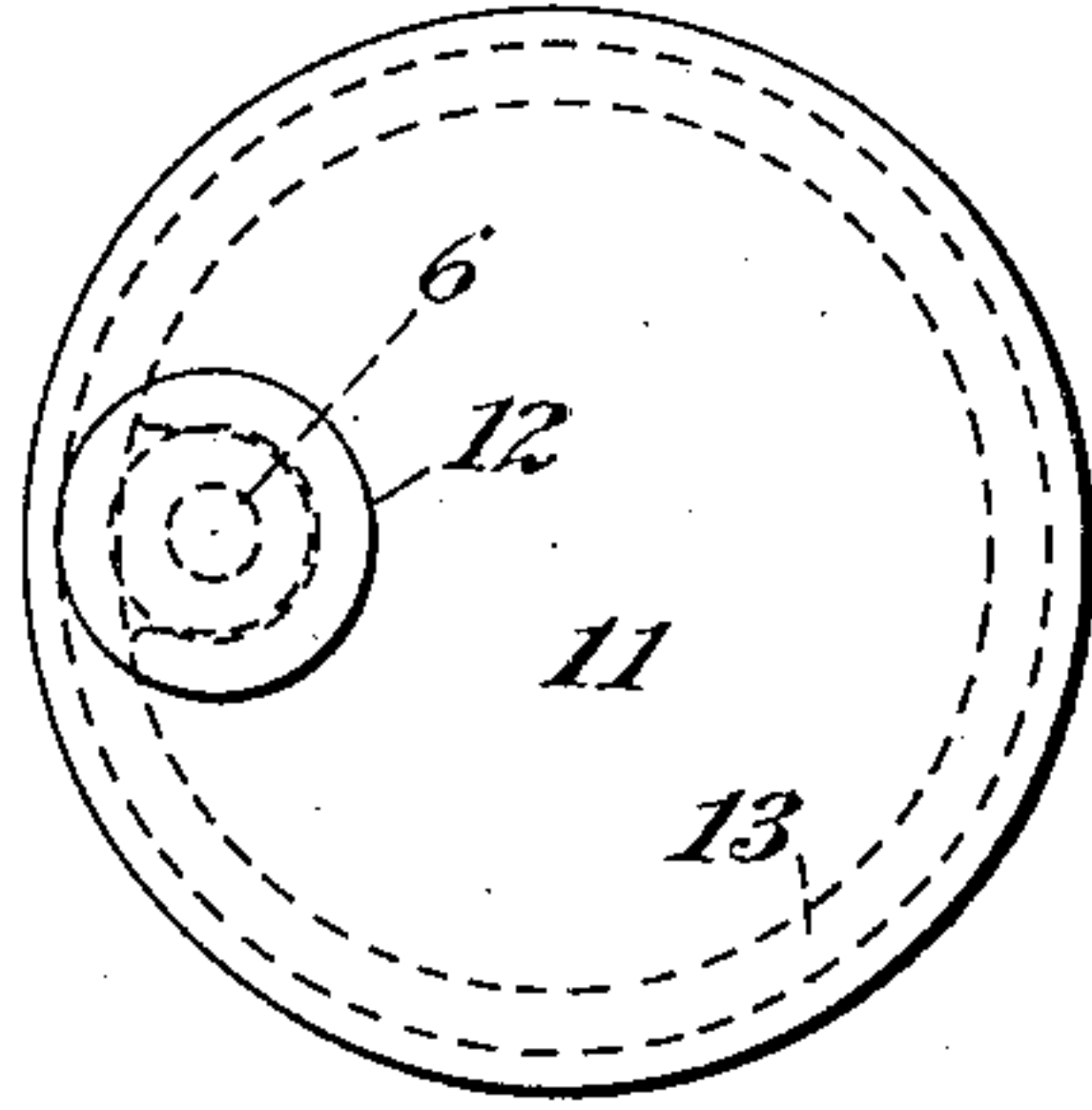


Fig. 3

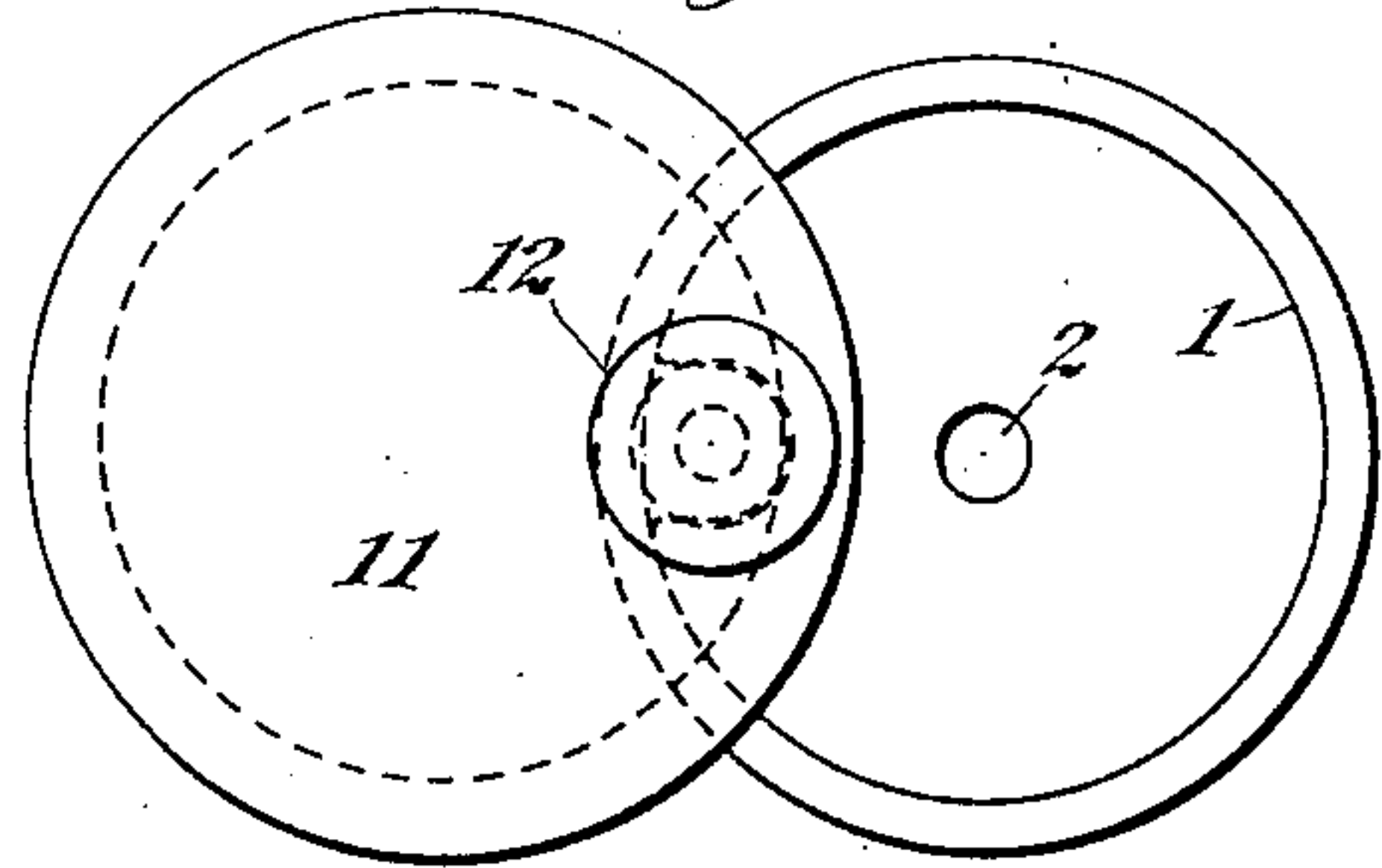


Fig. 2

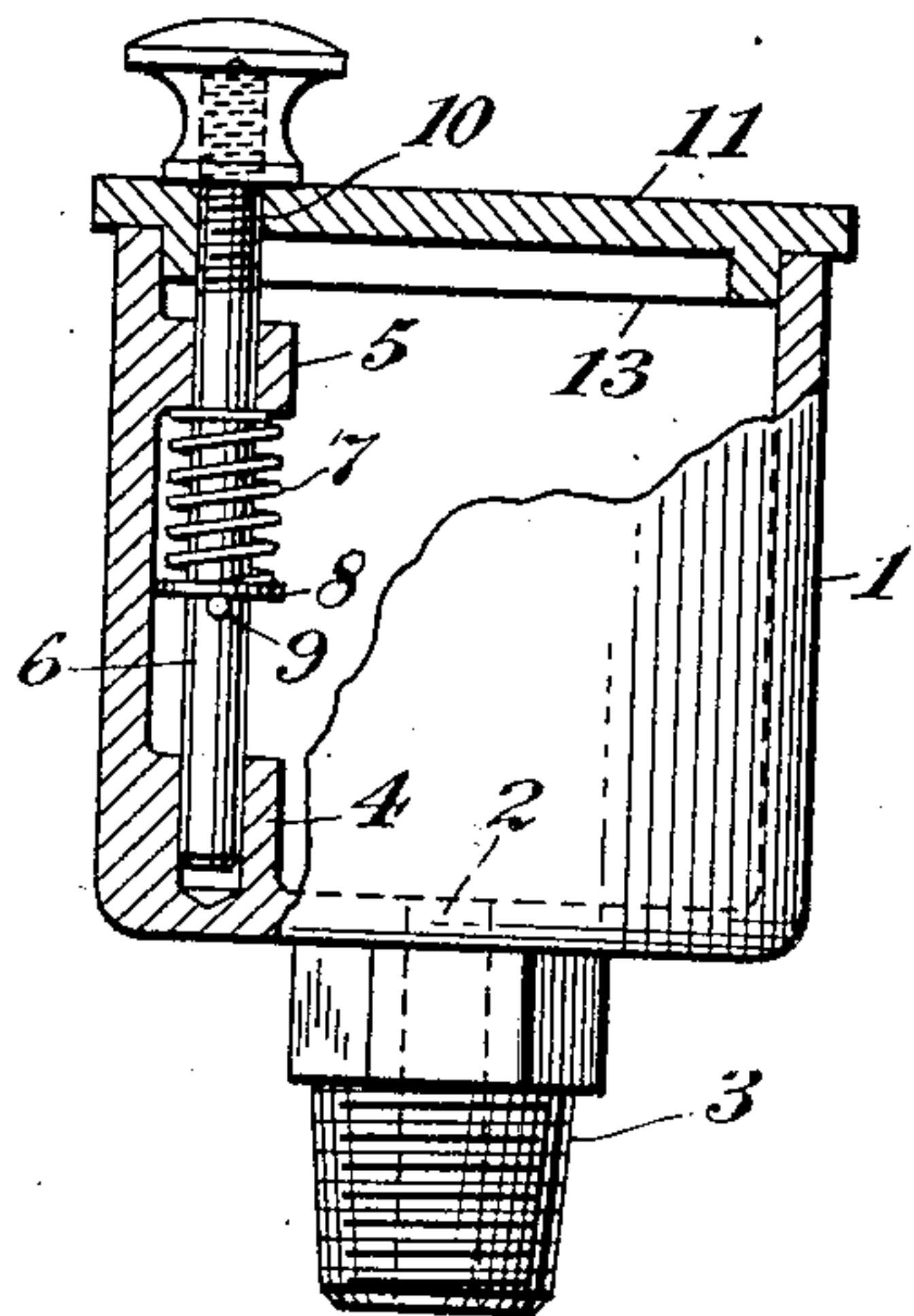


Fig. 4

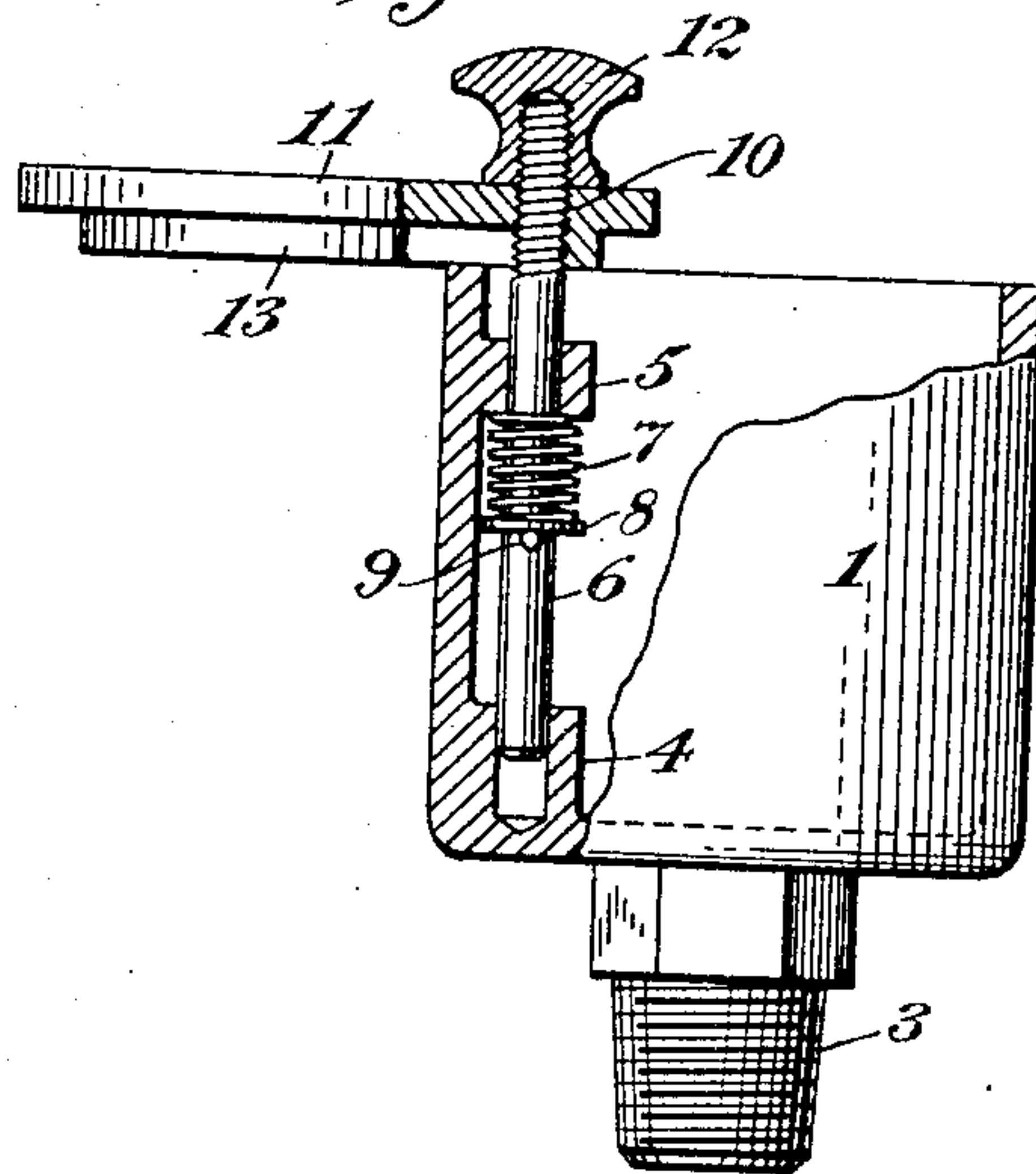
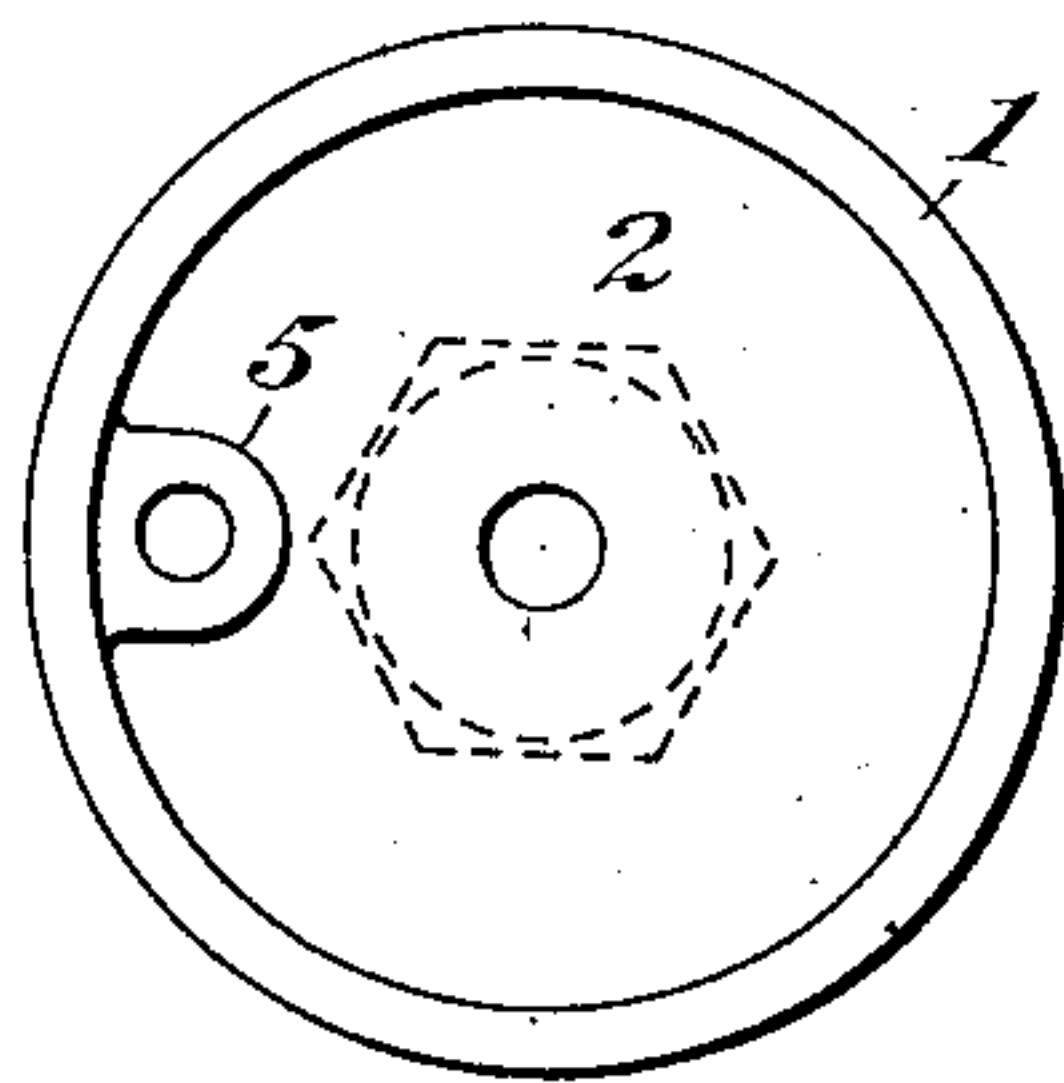


Fig. 5



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OIL-CUP.

1,331,663.

Specification of Letters Patent.

Patented Feb. 24, 1920.

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To all whom it may concern:

Be it known that I, CHARLES H. NEWTON, a citizen of the United States, and resident of Plainville, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Oil-Cups, of which the following is a specification.

My invention relates to lidded oil cups designed for the reception of lubricants and the like; and my improvements are particularly directed to means for securing a durable and simple construction which will increase the simplicity and efficiency with which the lid of the cup may be opened and closed as desired.

In the drawings Figure 1 is a top view of my improved oil cup with the lid closed; Fig. 2 is a vertical sectional view of the same; Fig. 3 is a top view with the lid opened; Fig. 4 is a vertical sectional view of the same; and Fig. 5 is a top view of the cup with the lid removed. Similar parts are designated by corresponding reference numerals in all the figures.

The body 1 of the oil cup is provided with an oil duct 2 passing down through its bottom and through a suitable, screw threaded neck 3, by which it may be secured in an operative position.

It is also provided interiorly with pivot bearings 4 and 5, the former consisting of a socket and the latter of a sleeve, these bearings being preferably made integral with the body of the cup. And in these bearings rotates and slides a pintle 6, having a coiled spring 7 surrounding it and interposed between the bearing 5 and a suitable stop on the pintle, as a washer 8 supported by a pin 9.

The upper end of the pintle 6 is threaded and is screwed through a threaded opening 10 in the lid 11. And upon the upper end of the pintle 6 is screwed a knob 12 which acts as a nut lock and clamps the pintle and lid firmly together.

The lid 11 is preferably provided with a flange 13 which is adapted to fit inside of the cup, when the lid is closed, and to ride smoothly on the upper edge of the cup when the lid is opened, which arrangement results in the edge of the cup scraping off from the lid and retaining any surplus oil which may be adhering to the lower edge of the flange when the lid is swung open. This effect is increased by the tension of the spring 7

which holds the lid when opened snugly against the edge of the cup, as well as keeps it closed when swung into place.

In use the knob is grasped between the thumb and fingers and raised so as to bring the lid up to the edge of the cup. At the same time the knob is given a slight side-wise twist or spin, so that as soon as its flange 13 is even with the edge of the cup it will swing outward, scraping along the cup's edge as it does so. This movement of the lid is continued by rolling the knob between the thumb and fingers until the lid is as far open as desired. And by spinning the knob in the reverse direction the lid will be swung back so as to cover the cup and will be pulled down into place by the spring 7.

This arrangement provides a cup lid which is raised and manipulated by a finger hold placed directly in line with its carrying pivot, thus avoiding any tendency of the pintle to bind in the bearings, which furthermore are constantly lubricated by the oil in the cup. And the knob 12 being so disposed in line with the pintle and being of a suitable form to be grasped and spun between the fingers the whole operation of opening and closing the lid may be performed without altering the grip of the fingers upon the knob or swinging the operator's hand or arm in manipulating the lid.

My arrangement therefore gives compactness and durability of construction, simplicity and efficiency of operation and prevents the spreading of the oil from within the cup upon its outer side when the lid is swung open.

Having thus described my invention, what I claim and desire to secure by Letters Patent of the United States is:—

1. The combination, in a lubrication device, of a cup having an outlet duct, a horizontal upper edge and interior pintle bearings, a lid provided with a flange having a horizontal lower edge and being adapted to register inside of the cup, a pintle sliding and rotating in the bearings and fixed in its relation to and carrying the lid and being provided with a lifting and rotating element above the lid and disposed in line with the pintle.

2. The combination, in a lubrication device, of a cup having an outlet duct, a horizontal upper edge and interior pintle bearings, a lid provided with a flange having a horizontal lower edge and being adapted to

register inside of the cup, a pintle sliding and rotating in the bearings and carrying the lid and being provided with a lifting and rotating element consisting of a rounded knob and disposed in line with the pintle.

3. The combination, in a lubrication device, of a cup having an outlet duct, a horizontal upper edge and interior pintle bearings, a lid provided with a flange having a horizontal lower edge and being adapted to register inside of the cup, a pintle sliding and rotating in the bearings and threaded through and carrying the lid and being provided with a lifting and rotating element consisting of a rounded knob above the lid

and disposed in line with and threaded onto the pintle.

4. The combination, in a lubrication device, of a cup having an outlet duct, a flat horizontal upper edge and integral, interior pintle bearings, a lid provided with a horizontal under edge and with a flange having a horizontal lower edge adapted to register inside of the cup, a pintle sliding and rotating in the bearings and threaded through and carrying the lid, a coiled, depressing spring carried by the pintle, and a rounded lifting and spinning knob threaded onto the end of the pintle above the lid.

CHARLES H. NEWTON.