

No. 782,577.

PATENTED FEB. 14, 1905.

D. A. D. MACMASTER.
AUTOMATIC LID FOR JUGS.
APPLICATION FILED NOV. 29, 1904.

Fig: 1

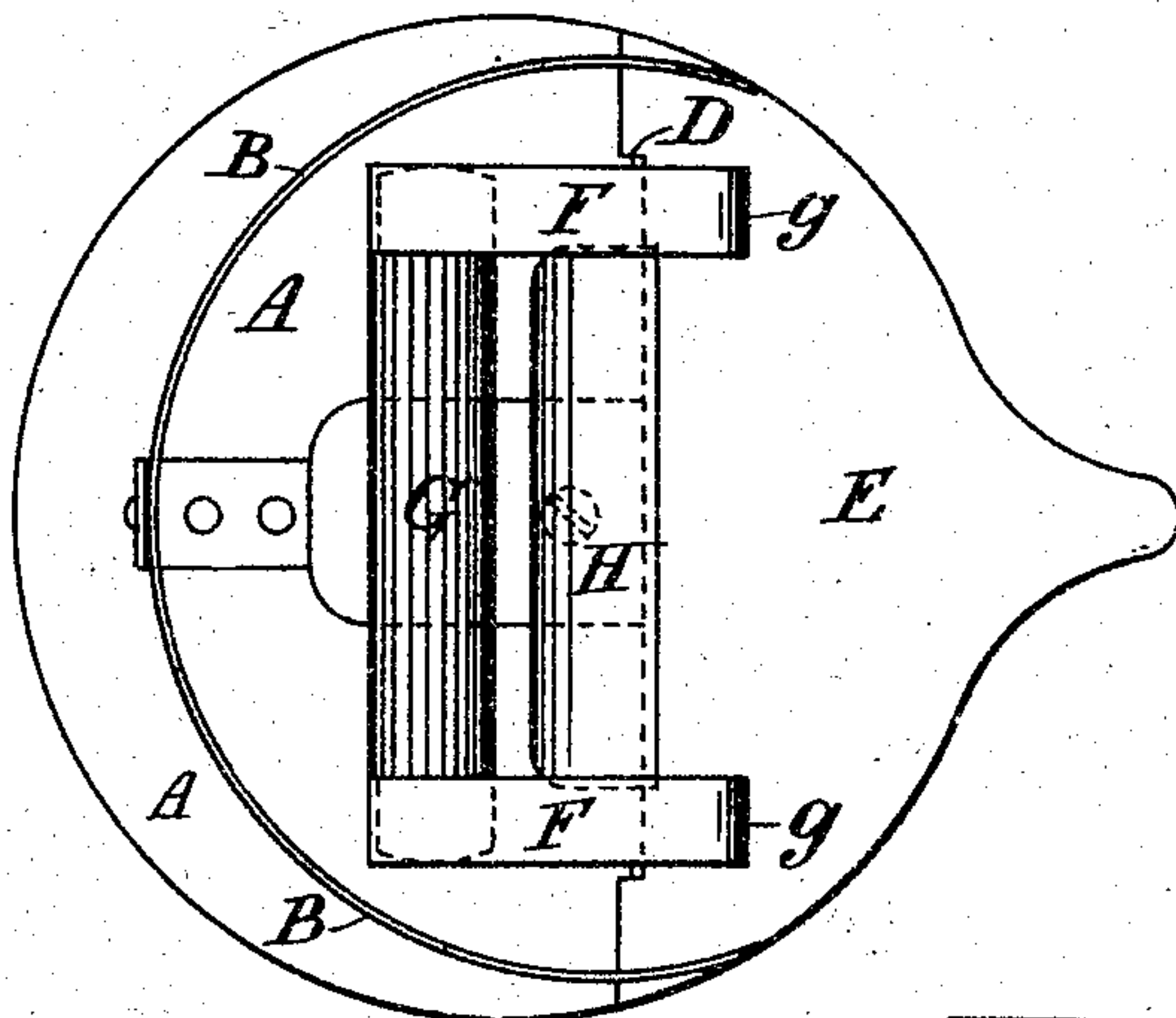


Fig: 2

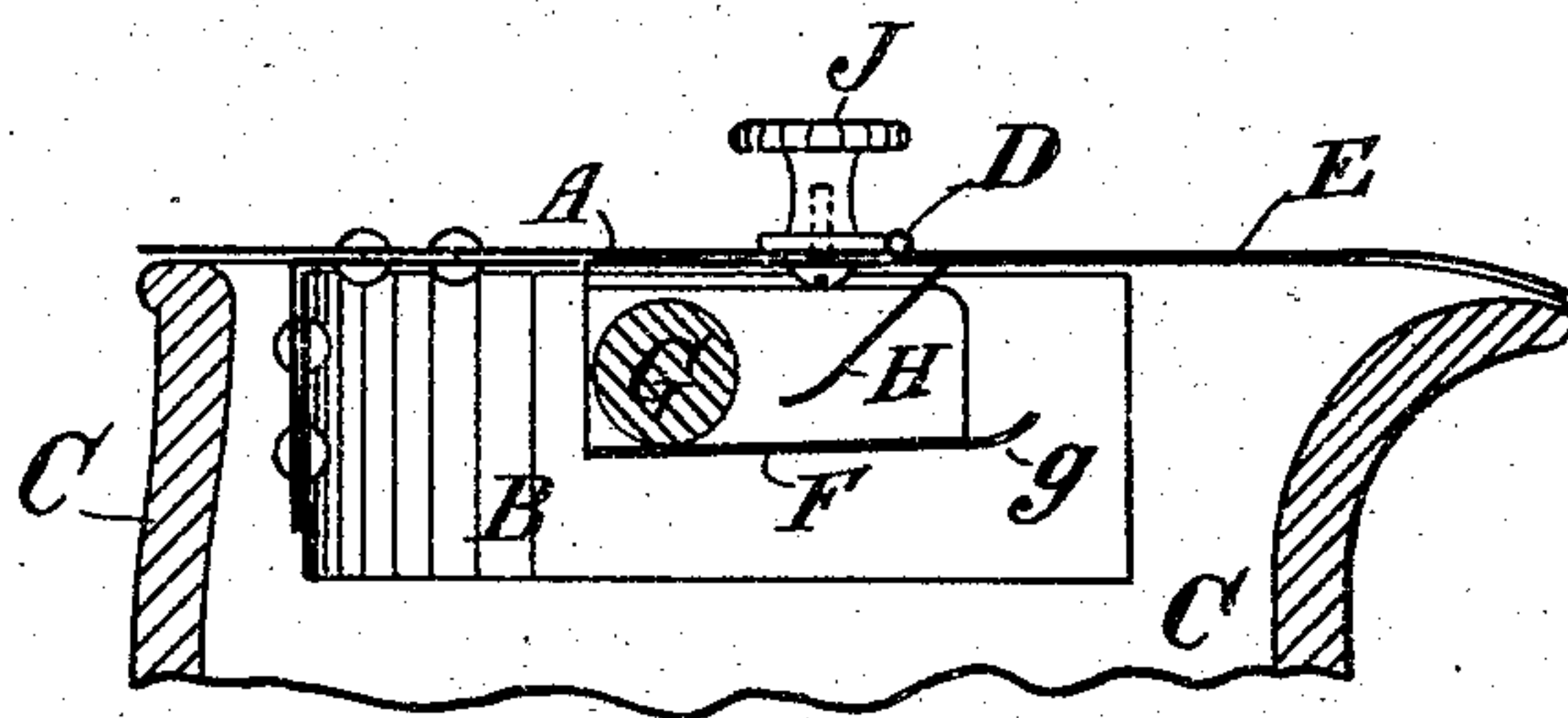
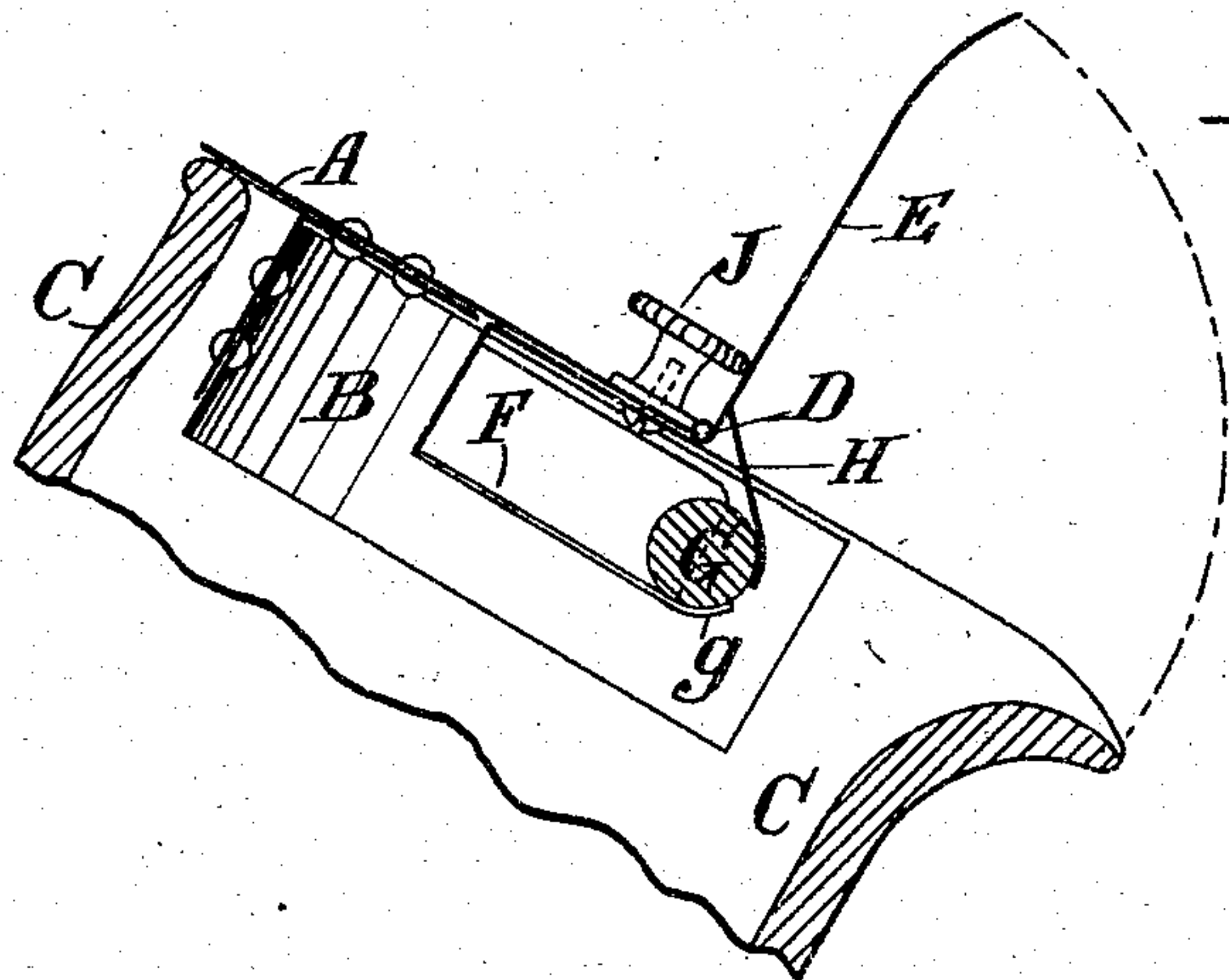


Fig: 3



Witnesses

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DONALD AENEAS DUNLOP MACMASTER, OF NORTH SYDNEY, NEW SOUTH WALES, AUSTRALIA.

AUTOMATIC LID FOR JUGS.

SPECIFICATION forming part of Letters Patent No. 782,577, dated February 14, 1905.

Application filed November 29, 1904. Serial No. 234,788.

To all whom it may concern:

Be it known that I, DONALD AENEAS DUNLOP MACMASTER, a subject of the King of Great Britain and Ireland, and a resident of 208 Miller street, North Sydney, in the State of New South Wales, Commonwealth of Australia, have invented a certain new and useful Automatic Lid for Jugs, (for which I have applied for a patent in the Commonwealth of Australia, No. 1,769, dated the 18th of October, 1904,) of which the following is a specification.

This invention has been devised for the purpose of causing the lid or part of the lid of a jug to automatically open when the jug is tilted forward, as in the act of pouring out, and to automatically close when the jug is placed on a table or on any level surface.

In the accompanying drawings, Figure 1 is an underneath plan of the lid of a jug. Fig. 2 is a vertical section of the same when the jug is standing on a level bottom. Fig. 3 is a similar view when the jug is tilted at an angle of sixty degrees from the horizontal.

The cover or lid is in two parts. The rear part A remains permanently in the position shown in the drawings in respect of the jug, where it is maintained by means of the segmental spring B, which bears against the inside of the jug C. The lid is intermediately hinged at a point D, so that the front part E can move freely in a vertical plane, as shown in Fig. 3. Secured to the under part of the part A of the lid is a race F, which is inclined slightly downward toward the rear, so that when the jug is standing on a level bottom the cylindrical weight G may roll toward the rear of the race. The front part of the race is curved slightly upward, as at *g*. Projecting downward from the movable part E of the lid and near the front of the race F is a tongue H, adapted to receive the impact of the cylindrical weight G when the jug is tilted forward, as in Fig. 3. When the jug is on a level bottom, the cylindrical weight G will lie at the rear end of the race F, as shown in Fig. 2; but when the jug is tilted forward, as shown in Fig. 3, the cylindrical weight G will impinge against and push outward the tongue

H and thereby raise the part E of the lid to the position shown in Fig. 3. Directly the jug is replaced on a level bottom the cylindrical weight G will roll to the rear end of the race F, and the part E of the lid will drop of its own weight and completely close the top of the jug, as shown in Fig. 2.

It is important that the part E of the lid should not open through an angle greater than ninety degrees. To this end the button J is placed immediately at the rear of the hinge D, so that the movable part E of the lid shall not be able to move farther to the rear than the edge of the button J; but the same effect may be arrived at in a variety of ways. The rear part A of the lid may be secured to the top of the jug in many ways. In this case it is shown clipped to the jug by the spring B; but I do not wish to confine myself to this mode of securing the cover to the jug.

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

1. A jug-cover composed of two parts, a fixed part and a hinged or movable part, a race secured to the fixed part, a cylindrical weight or roller adapted to roll in the race and a tongue projecting downward from the movable or hinged part of the lid and adapted to receive the impact of the roller-weight when the jug is tilted forward as specified.

2. A jug-cover composed of two parts, a fixed part and a hinged or movable part, a race secured to the fixed part, a cylindrical weight or roller adapted to roll in the race, a tongue projecting downward from the movable or hinged part of the lid and adapted to receive the impact of the roller-weight when the jug is tilted forward, means for preventing the movable part of the lid from opening through an angle greater than ninety degrees, and means for securing the whole lid to the top of the jug as herein set forth.

In witness whereof I have hereunto set my hand in presence of two witnesses.

DONALD AENEAS DUNLOP MACMASTER.

Witnesses:

H. E. DE LANGE,

MANFIELD NEWTON.