

No. 639,343.

Patented Dec. 19, 1899.

W. BLACK, JR.
OILSTONE BOX.

(Application filed Dec. 31, 1898.)

(No Model.)

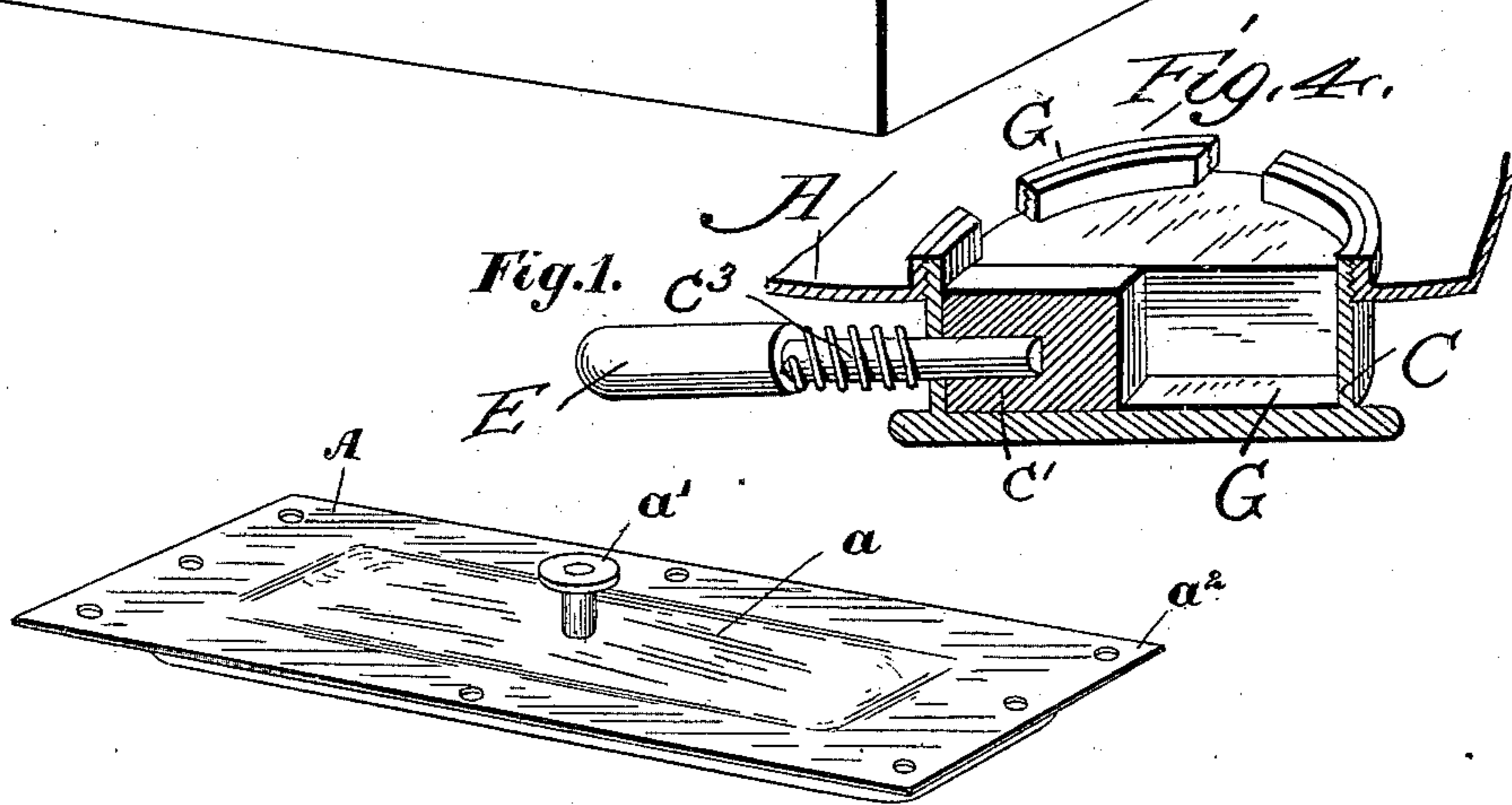
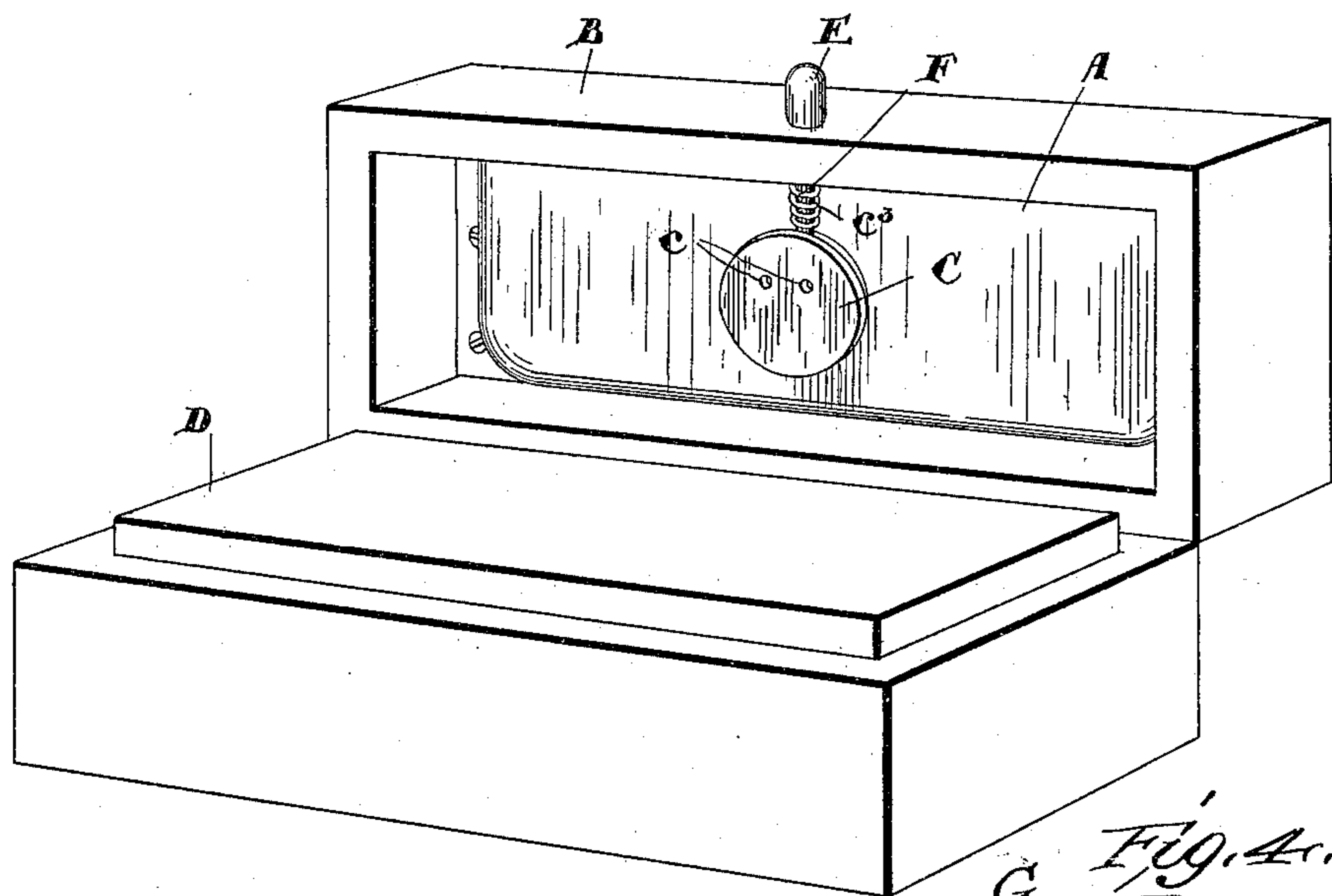


Fig. 2.

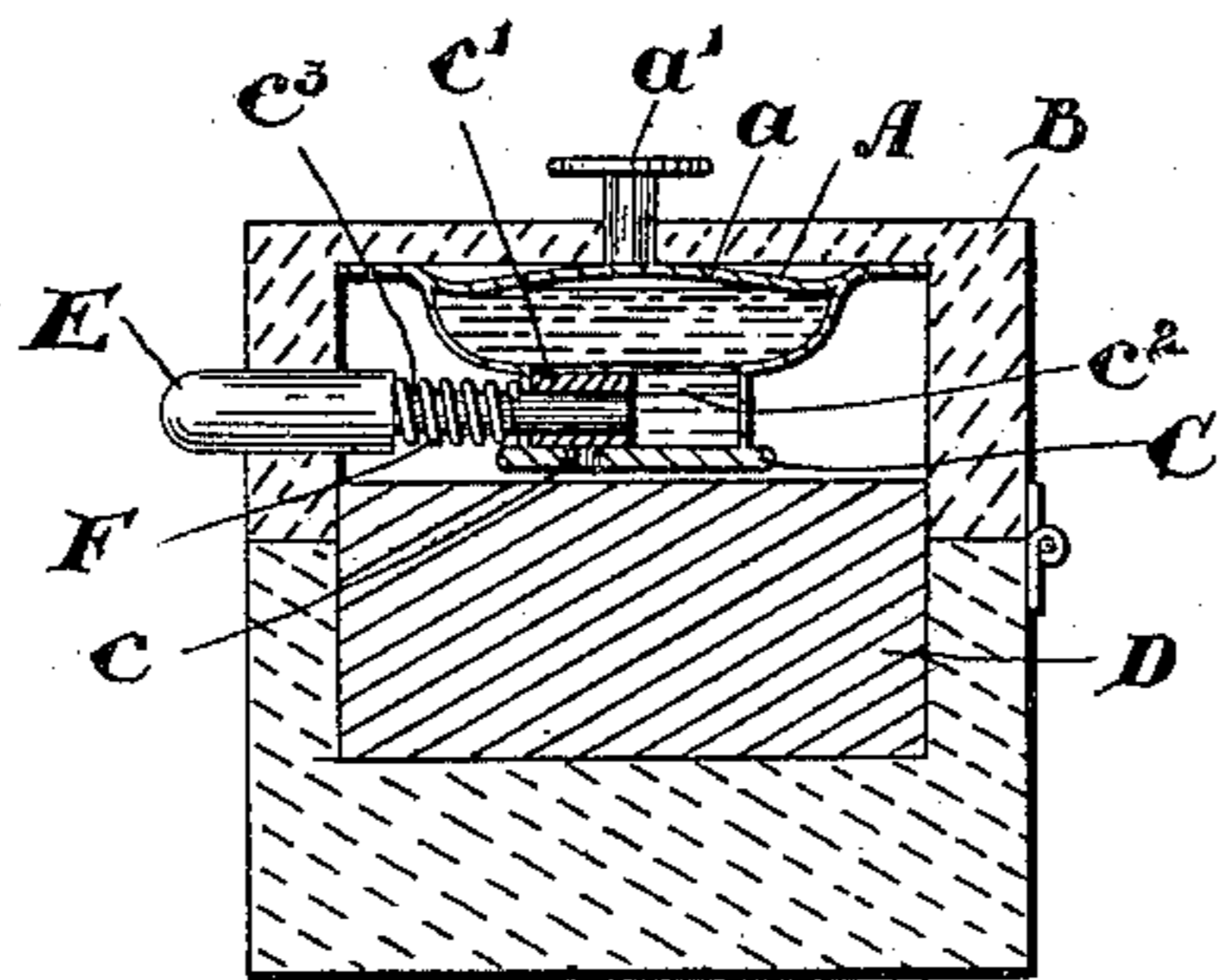


Fig. 3.

Witnesses.

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UNITED STATES PATENT OFFICE.

WILLIAM BLACK, JR., OF MONTREAL, CANADA.

OILSTONE-BOX.

SPECIFICATION forming part of Letters Patent No. 639,343, dated December 19, 1899.

Application filed December 31, 1898. Serial No. 700,816. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM BLACK, JR., a subject of the Queen of Great Britain, residing at Montreal, in the district of Montreal, in the Province of Quebec, Canada, have invented a new and useful Improvement in Oilstone-Boxes, of which the following is a specification.

My invention relates to improvements in oilstone-boxes; and the object of the invention is to devise an oil-receptacle to be attached to the inside of the lid of the box, whereby on opening the box the stone is always left oiled and ready for use; and it consists, essentially, of a receptacle designed to be fitted inside the lid of the box, having a slightly-convex top with a suitable button attached thereto of sufficient length to rise above the lid of the box when the latter is closed, a cup attached to the lower side of the tank, with suitable apertures for the oil to pass through, and a slide controlled by the button, passing through the side of the box, so that on the pressure of this button the slide is forced back and leaves the apertures clear for the oil to pass through, the parts being arranged and constructed in detail, as hereinafter more particularly explained.

Figure 1 is a perspective view of the oilstone-box, showing my device attached to the inside of the lid. Fig. 2 is a perspective view of the oil-receptacle. Fig. 3 is a sectional view of the oilstone-box, showing the internal construction of my device. Fig. 4 is a cross-sectional view, on an enlarged scale, of a detail.

In the drawings like letters of reference indicate corresponding parts in each figure.

A is the oil-receptacle, which is made of flat form, so as to conveniently fit inside the lid B.

C is the cup.

c c are the apertures in the cup through which the oil passes onto the stone D.

c' is a slide which by being forced past the aperture c leaves the same open.

c³ is a spindle suitably attached to the slide c' and terminating with the press-button E. The spindle c³ is encircled by a spring F, which by means of being placed between the button E and the cup C serves to keep the slide c' in the closed position.

a is the top of the receptacle, which is curved in form and fits into the inside of the lid B.

The top of the receptacle a is surmounted by a button a', which passes through the top of the lid of the box. The flange a² is left around the edge of the receptacle, so that it may be readily attached to the inside of the lid.

The cup C is threaded at the top and screwed into the receptacle a, and as this will necessarily raise a small flange inside the bottom of the receptacle I propose to have channels or openings cut in said flange and also corresponding channels in the top of the wall of the cup, so as to drain the receptacle a to the last drop of oil.

To fill the receptacle with oil, the cup C is unscrewed from the receptacle a, carrying the spindle c³ with it, or if the spindle c³ is made fixed to the press-button E by detaching the spindle from the slide c' the cup C is left free to be taken off. In placing the spindle c³ through the orifice in the cup C a suitable rubber washer may be used to prevent leakage.

I propose in constructing the grooves c² for slide c' to run in to have them firmly supported from the wall of the cup and, if necessary, let them form solid pieces from the edges of the slide c' to the sides of the cup.

In order to oil the stone, the box being closed, you place your thumb on the button E and a finger on the button a' and by a slight pressure of both you force the slide c' along the grooves c², thereby leaving the apertures c c open for the oil to run through, and by the pressure of the finger on the button a', the top a being convex, the displacement of air forces the oil through the apertures c c onto the stone D, so that when the box is opened the stone is oiled, and immediately the pressure on the button E is taken away, the spring F, encircling spindle c³, forces the slide c' into the closed position.

Although I show the button a' rising above the top of the lid, it will readily be understood that it may be made to come flush with the lid.

What I claim as my invention is—

1. The combination with the box having a lid, of an oil-receptacle secured to the under face of said lid, a discharge-opening in said receptacle, a cover normally closing said opening, means extending through the lid for removing said cover, and a compression device

for said receptacle also projecting through the lid.

2. The combination with an oilstone-box comprising a lower portion of rectangular form having the stone seated therein and projecting above the upper edge thereof and a cover having a recess in its under face of rectangular form to fit snugly the stone and rest upon the upper face of the walls of the bottom, of a narrow oil-receptacle of elongated form adapted to fit within the recess of the cover and a flange adapted to be secured to the under face of said cover and the means for discharging the oil from said receptacle, substantially as described.

3. In an oilstone-box, the combination with the lid, of an oil-receptacle connected thereto, a cup extending from such receptacle

downwardly into proximity with the stone, suitable orifices in said cup, a slidable covering therefor, a spindle connected to the slidable covering and a button on the end thereof extending through the side of the lid and a spring interposed between the inner end of the button and the cup, and a button having the stem thereof extending through the top of the lid and operatively connected to the top of the receptacle as and for the purpose specified.

Signed at Montreal this 24th day of December, 1898.

WILLIAM BLACK, JR.

Witnesses:

FRANK PLUMMER,
RICHARD COLLINS.