

(No Model.)

W. S. YOUNG.

LUBRICATING CUP.

No. 299,450.

Patented May 27, 1884.

Fig. 1.

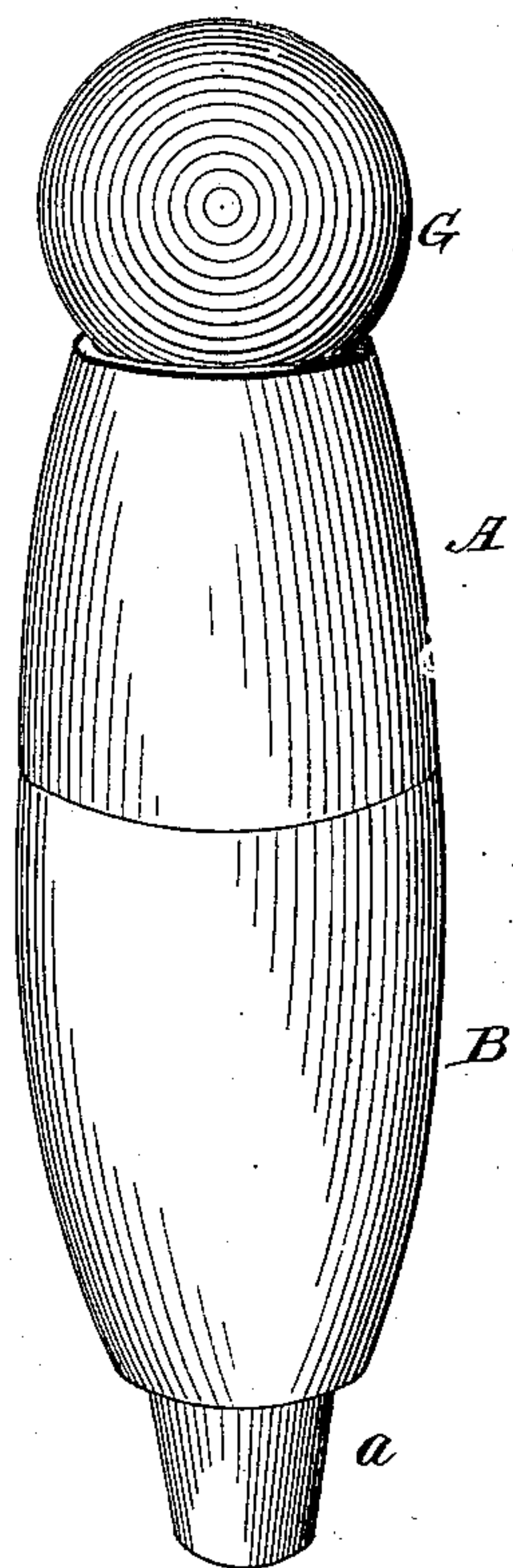
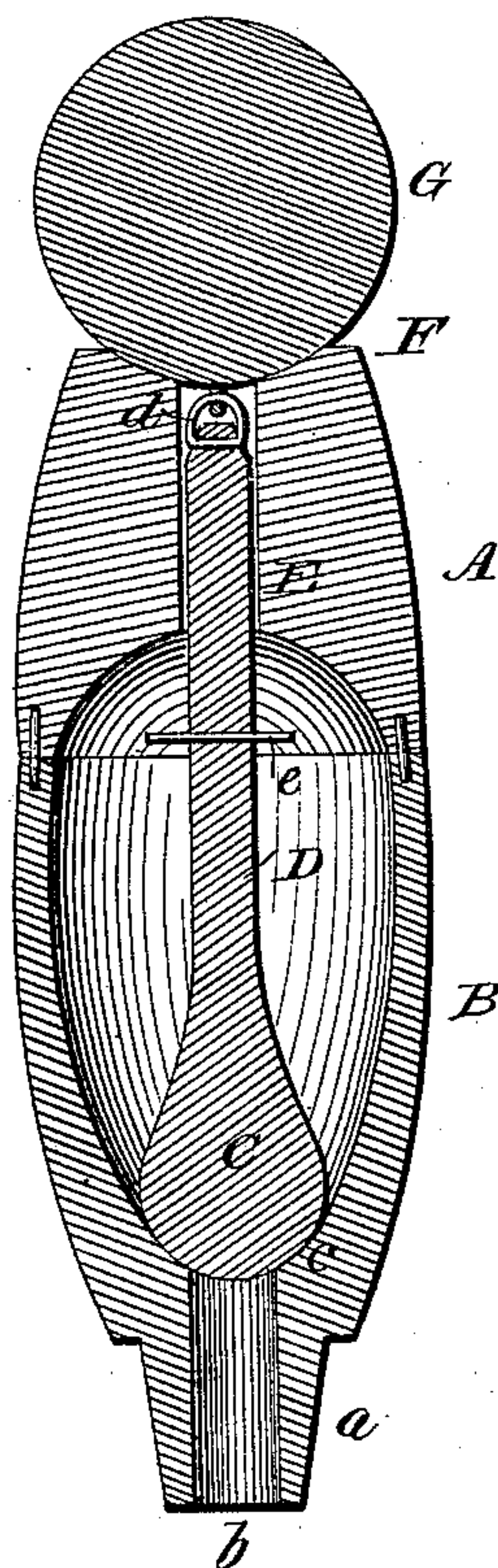



Fig. 2.



WITNESSES
F. L. Curand
E. M. Johnson

Wilbur S. Young.
INVENTOR

Attorney

UNITED STATES PATENT OFFICE.

WILBUR SARGENT YOUNG, OF GILLESPIE, ILLINOIS.

LUBRICATING-CUP.

SPECIFICATION forming part of Letters Patent No. 299,450, dated May 27, 1884.

Application filed April 17, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILBUR S. YOUNG, a citizen of the United States of America, residing at Gillespie, in the county of Macoupin and State of Illinois, have invented certain new and useful Improvements in Lubricating-Cups; and I do hereby declare the following to be a full, clear, and exact description of the invention, which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention is a lubricating device constructed as fully described hereinafter, which is of simple and durable form, and readily adapted to lubricate under the movement of the parts to which it is connected.

In the accompanying drawings, forming part of this specification, Figure 1 is a perspective view of my improved lubricating device, and Fig. 2 is a vertical section of the same.

The body of the device consists of two cups or sections, A B, which rest upon each other edge to edge, as shown in Fig. 2. The lower section, B, terminates at its lower end in a throat or nipple, *a*, which communicates with the interior of the section B by means of a passage, *b*. The interior of the section B constitutes the oil-reservoir of the device, the flow of oil from said reservoir through the passage *b* being controlled by a ball-valve, C. A vertical spindle, D, is connected to and extends from said ball-valve C up through a curved partition arranged transversely across the bottom of the section A, and through the depressed top F of said section A. When the valve C bears on its seat *c*, so as to close the passage *b* and cut off the flow of oil, the upper end of the spindle D will terminate slightly below the said depressed top F. The upper end of the spindle is connected to a sphere or light body, G, by a link or other flexible connection, *d*.

Oil having been introduced in the lower section, B, and the section A secured in position thereon, the throat or nipple is introduced into the opening in the structure to be lubricated, and the lubricating device thereby retained in position thereto. As the said structure moves, the sphere or light body G is oscillated to either side of the depressed top F, and thereby slightly elevates the vertical spindle D and lifts the valve C from its seat *c*, so as to

permit oil to flow through the passage *b*. The vibration of the machinery will cause the sphere to alternately oscillate from one side to the other of the top F, and thereby intermittently open and close the valve C. The vertical movement of the spindle D is limited by a horizontal pin, *e*, which passes transversely through the same, and is adapted when said spindle is elevated to contact with the curved partition E. The curved partition E prevents the oil in the reservoir-section B, when agitated, from forcing its way to the upper surface of the depressed seat F, which would result in the gumming or hardening of the oil on said top, and thereby impede the free movement of the sphere thereon.

When the device is applied to lubricate a car or vehicle journal, it will be arranged so that the wind will agitate the sphere G and effect the desired operation of parts.

I claim—

1. The combination, in a lubricating device, of an oil reservoir or chamber adapted to communicate with the part to be lubricated, a valve controlling such communication, and a sphere or light body connected to said valve, and adapted to be moved, as described, to raise the valve, substantially as set forth.

2. The combination, in a lubricating device, of two sections adjustably secured together, the lower section forming an oil reservoir or chamber adapted to communicate with the part to be lubricated, a valve controlling such communications, the upper section provided with a horizontal partition and top, a sphere bearing on said top and connected to the valve by a rod or connection playing through said top or partition, said sphere being adapted to be moved to lift the valve, substantially in the manner and for the purpose set forth.

3. The combination, in a lubricating device, of an oil chamber or reservoir adapted to communicate with the part to be lubricated, a valve controlling such communication, a sphere or light body connected to said valve by a spindle having a stop or pin, adapted to contact with a transverse partition or support in said chamber, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WILBUR SARGENT YOUNG.

Witnesses:

W. M. JONES,
WM. H. CLARK.