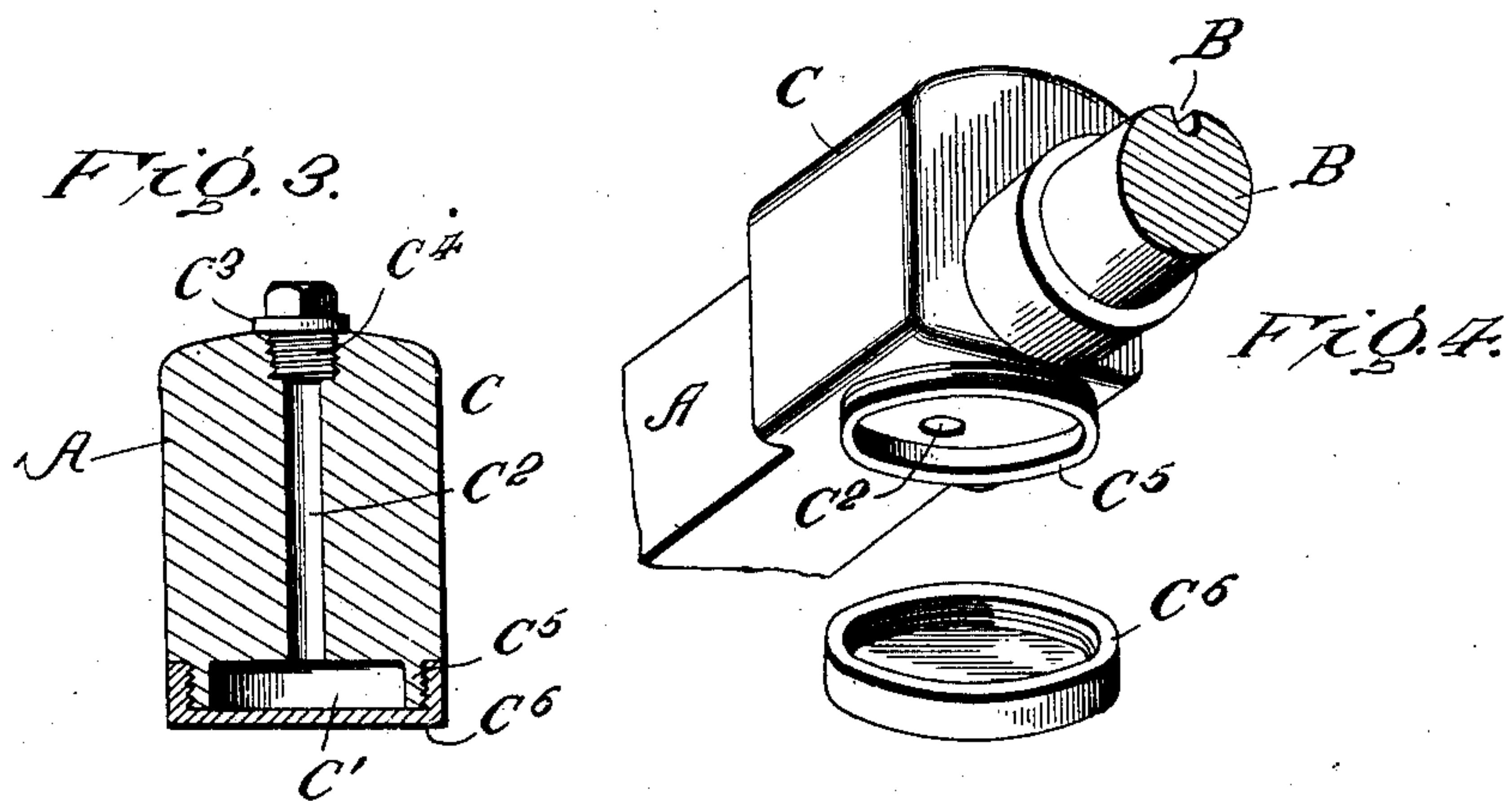
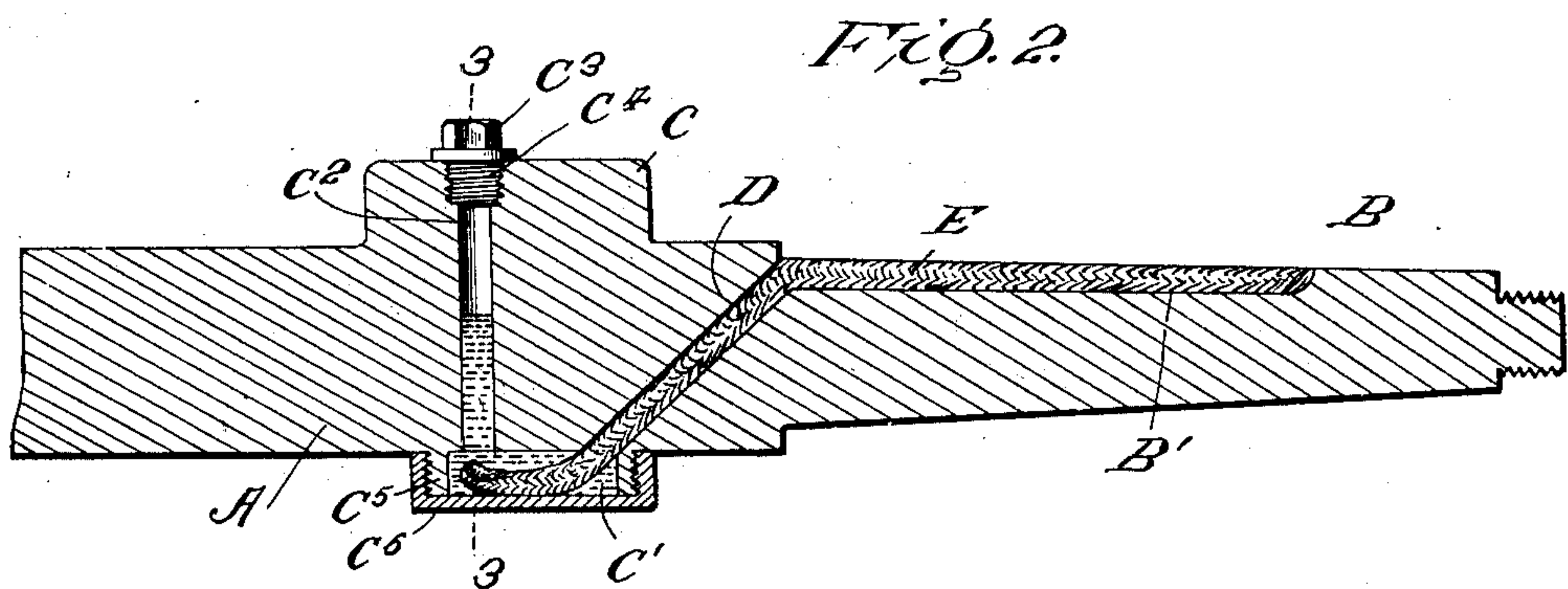
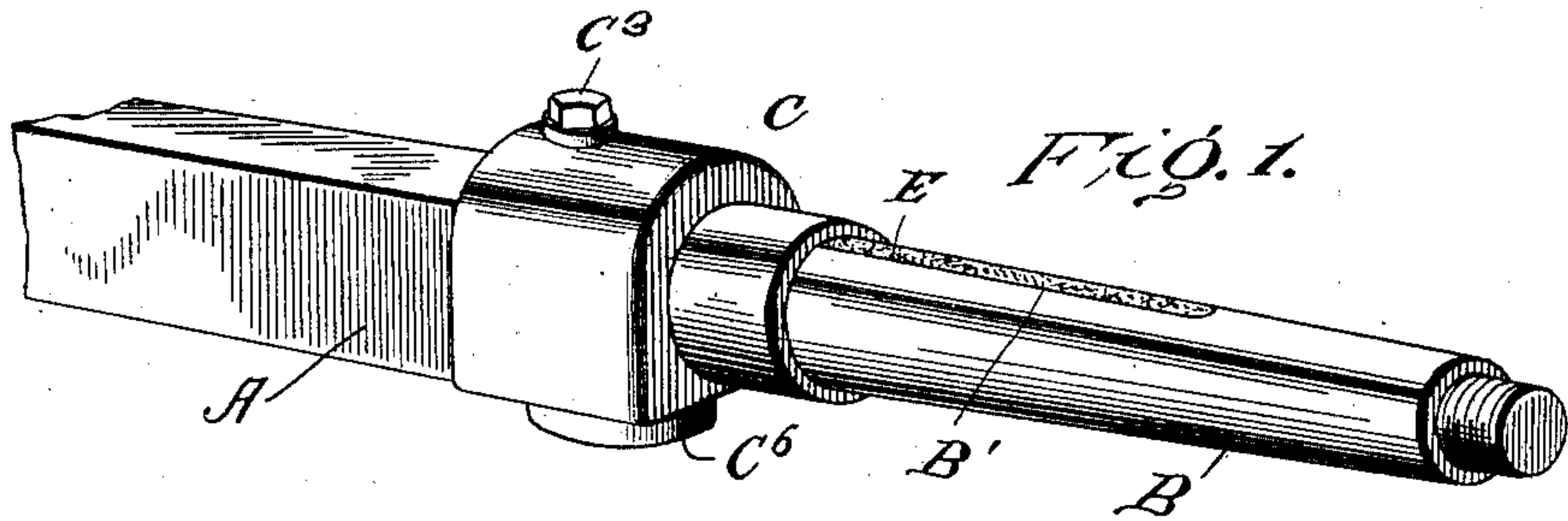


No. 826,588.

PATENTED JULY 24, 1906.

R. A. MACK.
AXLE LUBRICATOR.
APPLICATION FILED JAN. 31, 1903.



Witnesses
Louis H. Schmidt.
C. B. McBeth.

Inventor
Rudolph A. Mack.
By *O'Meara & Brock*
Attorneys

UNITED STATES PATENT OFFICE.

RUDOLPH ADOLPHUS MACK, OF GALLIPOLIS, OHIO.

AXLE-LUBRICATOR.

No. 826,588.

Specification of Letters Patent.

Patented July 24, 1906.

Application filed January 31, 1903. Serial No. 141,346.

To all whom it may concern:

Be it known that I, RUDOLPH ADOLPHUS MACK, a citizen of the United States, residing at Gallipolis, in the county of Gallia and State of Ohio, have invented a new and useful Axle-Lubricator, of which the following is a specification.

My invention is an improvement in means for lubricating axles; and the object of my invention is to provide a simple and efficient means for accomplishing this result without undue waste of lubricating material. Many devices have been placed on the market having this same result for their object, but requiring the use of washers, packing-rings, stuffing-boxes, &c., in order to retain the lubricant and exclude dust. In my improvement the oil-receptacle is a portion of the axle, and nothing is required of the user except to fill the receptacle, which can be done without touching the wheel, or replacing a worn wick by a new one, which can be done by simply removing the wheel.

In the accompanying drawings, Figure 1 is a perspective view of my improved lubricating axle and spindle. Fig. 2 is a longitudinal section through the same. Fig. 3 is a section on the line 3 3 of Fig. 2. Fig. 4 is a detail perspective view showing the under face of an axle and a portion of my device detached.

In carrying out my improvement I employ the usual stationary axle A and spindle B, a collar C being formed on the axle adjacent the spindle. These parts are integral and are cast or molded in one piece, as is evident from Fig. 2. The lower portion of the collar is recessed or hollowed out in its lower portion, as shown at C', and a vertical filling-passage C² extends from the top of the collar and opens into the oil-receptacle C'. At its upper end this passage is enlarged and threaded and is closed by a cap-piece C³, having a threaded shank C⁴.

A groove B' extends along the upper surface of the spindle for a considerable distance

and at its inner end communicates with the upper open end of a downwardly-inclined canal D, the lower end of which opens into the oil-receptacle. A one-piece wick E, formed of any suitable fiber, lies in the groove, extends downward through the canal, and its inner end rests upon the bottom of the receptacle. When the outer portion has become worn, the wick can be readily withdrawn and reversed, the worn end being inserted into the receptacle, or a new wick can be inserted.

By removing the cap the receptacle can be filled with oil, and the wick will convey the oil to the spindle. The wall C⁵ of the receptacle C' is threaded exteriorly, and a cap C⁶ threads upon the same wall C⁵, the said wall being substantially an annular flange or shoulder carried by the under face of the axle. By removing the cap C⁶ the bottom of the receptacle C' is thereby removed and can be readily cleaned out.

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

The combination with an axle and spindle, of an integral collar formed on the axle adjacent the spindle, a sectional oil-receptacle carried by the under face of the collar comprising an upper section integral with the collar and a lower section adapted to be threaded upon the upper section, the said collar having a vertical bore opening downward into said receptacle and the spindle having a longitudinal groove on its upper face and an oblique bore extending from the inner end of the groove downwardly to the receptacle, means for closing the upper end of the vertical bore formed in the collar and an oil-conveying medium arranged in the oblique bore as and for the purpose set forth.

RUDOLPH ADOLPHUS MACK.

Witnesses:

ROSCOE J. MAUCK,
F. M. CROMLEY.