

(No Model.)

W. L. F. WASTELL & E. T. DAY.  
CARRIAGE AXLE CAP.

No. 449,786.

Patented Apr. 7, 1891.

FIG 1

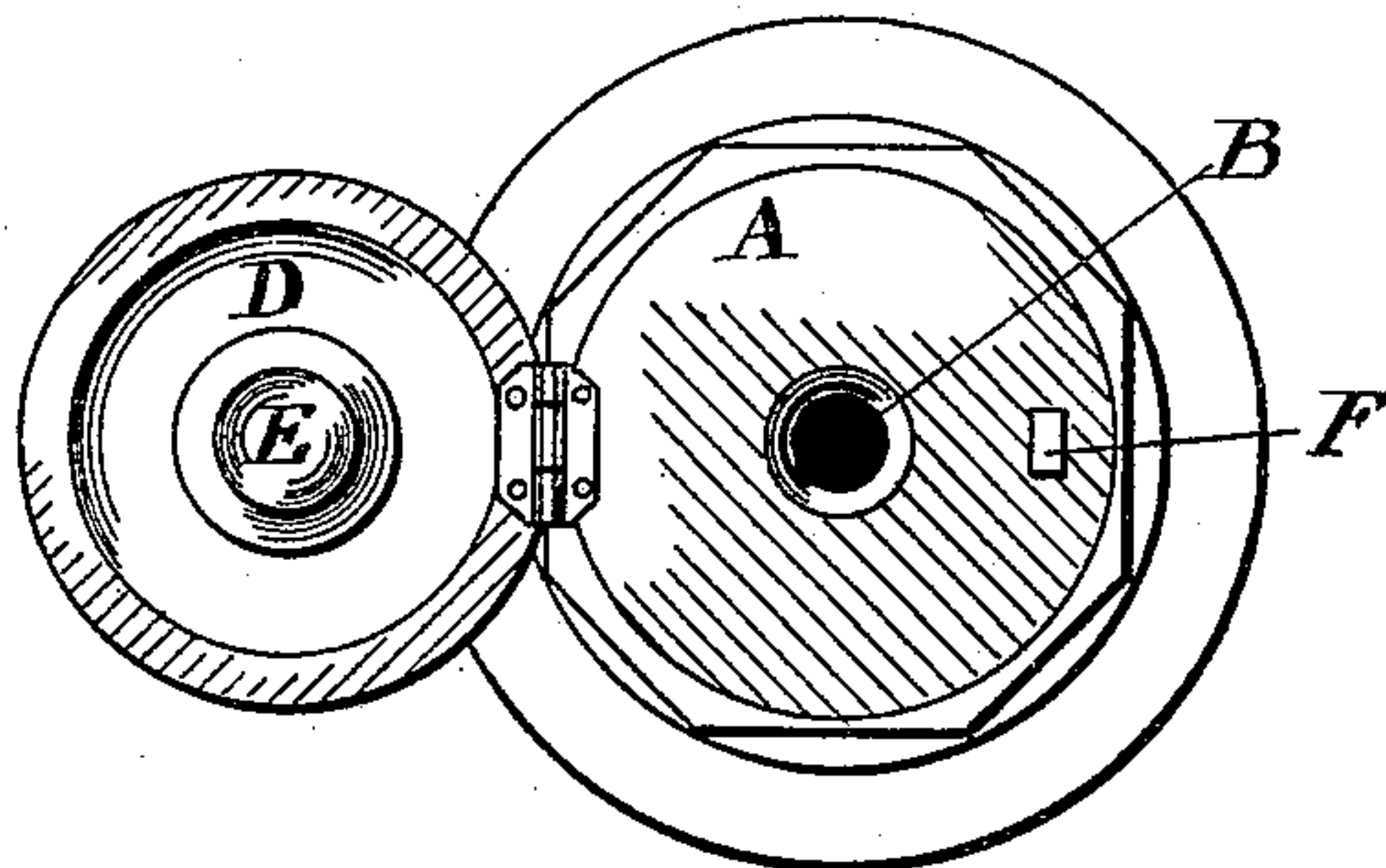


FIG 2

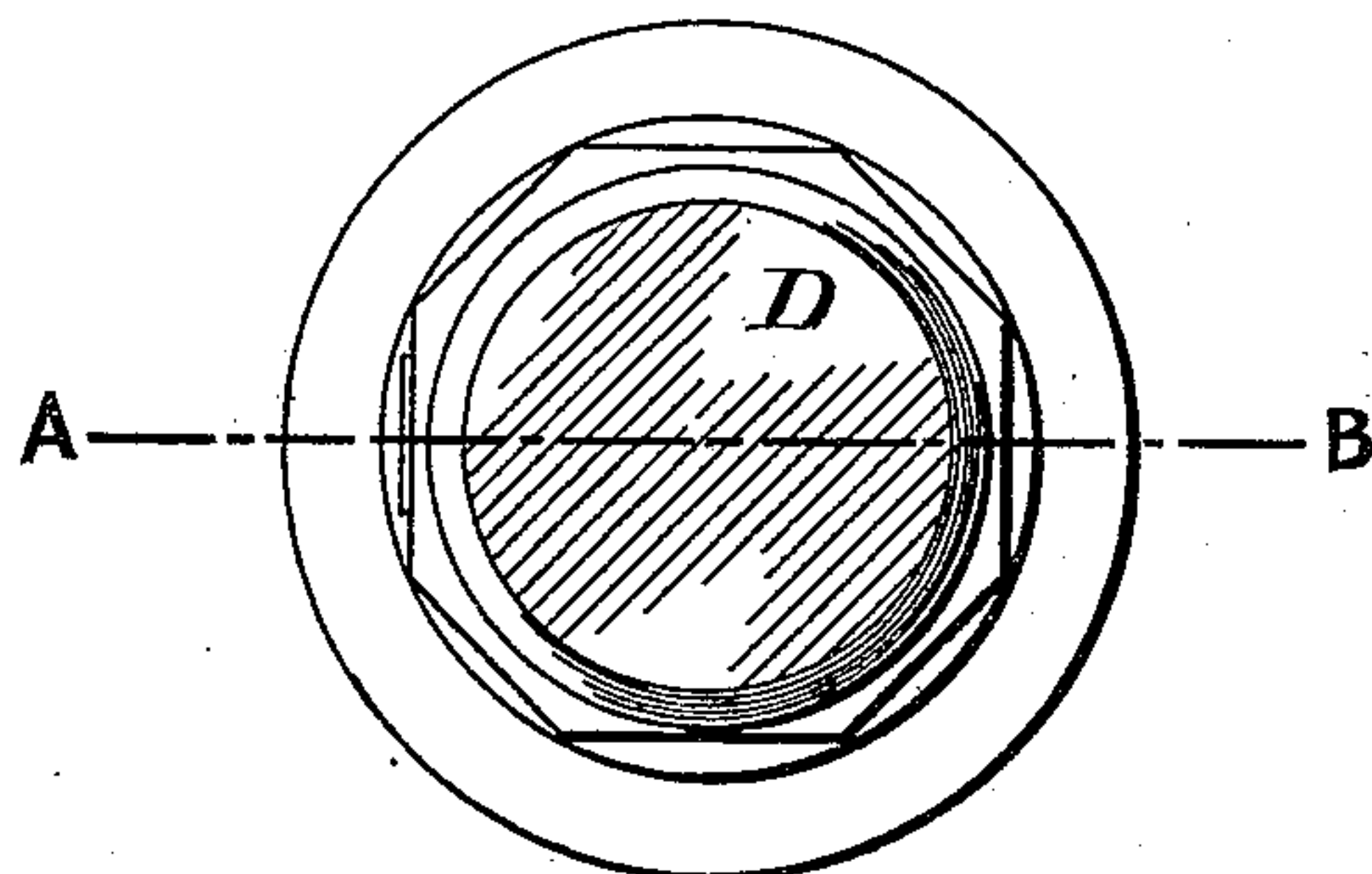
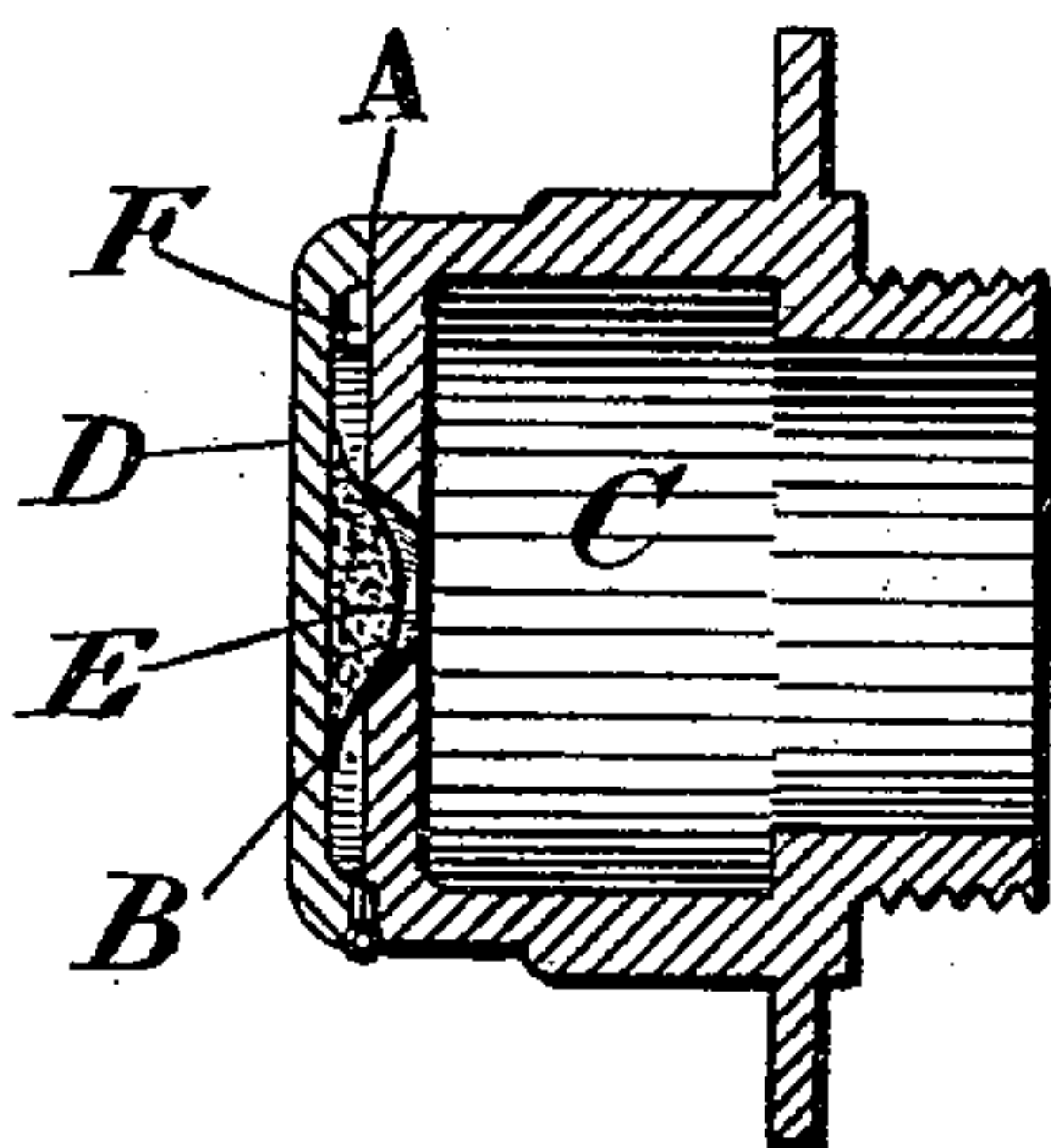


FIG 3



Witnesses  
*Geo. H. H. H. H.*  
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# UNITED STATES PATENT OFFICE.

WILLIAM LOUIS FRANCIS WASTELL AND EDWIN THOMAS DAY, OF SOUTH WOODFORD, ENGLAND.

## CARRIAGE-AXLE CAP.

SPECIFICATION forming part of Letters Patent No. 449,786, dated April 7, 1891.

Application filed September 30, 1890. Serial No. 366,618. (No model.) Patented in England October 8, 1889, No. 15,832.

*To all whom it may concern:*

Be it known that we, WILLIAM LOUIS FRANCIS WASTELL and EDWIN THOMAS DAY, subjects of Her Majesty the Queen of Great Britain, both residing at South Woodford, in the county of Essex, England, have invented an Improved Axle-Cap for Carriages, Cabs, and Road-Vehicles Generally, to facilitate the oiling of the bearings without removal of the cap, (for which we have obtained a patent in Great Britain, No. 15,832, dated October 8, 1889,) of which the following is a specification.

Our invention relates to a new, improved, and useful axle-cap for cabs, carriages, and road-vehicles generally, and has for its object the facilitating of the oiling or lubricating of the axle-bearings of the vehicle, to which it is attached without removing said cap therefrom.

In order that our invention and the manner of performing the same may be fully understood, we have appended the accompanying sheet of drawings, in which—

Figure 1 is a front view of the improved cap with the lid open. Fig. 2 is also a front view of the same with the lid shut, and Fig. 3 is a longitudinal section of Fig. 2 upon the line A B.

Similar letters of reference are used to indicate corresponding parts throughout the drawings.

In carrying out our invention we provide a metallic axle-cap similar to those in general use upon cabs, carriages, and other road-vehicles, with this exception, that the face of the cap, according to our invention, is perfectly flat, as shown at A, Figs. 1 and 3. In the center of said face A we bore a hole B, through which the chamber C is fed with the oil or other lubricant intended to be used, covering the face of the cap A, and attached thereto by a suitable hinge we provide a lid or cover D, cupped on the inside to give room for the fixing thereto of a stopper or plug E, made of india-rubber or other resilient material, in such a position that when the lid D is shut upon the cap-face A the plug E abuts

against the hole B and prevents the escape of the oil or other lubricant in the chamber C during the revolutions of the cap when upon the axle. A suitable catch F upon the cap-face A engages with the lid D when shut, and holds it in that position as long as may be desired, or until the axle-bearing needs re-lubricating, when the releasing of the catch F permits the opening of the lid D and the lubricant passed through the hole B, as before explained.

The essential point of our invention is that when once our improved cap is screwed upon the axle the bearings thereof may be lubricated in the manner hereinbefore explained without removing the cap therefrom, thus dispensing with the need of spanners or wrenches for that purpose, as applied to axle-caps hitherto made and used.

Without departing from the essential features of our invention, we wish it to be understood that the cap D may be fitted upon the face A by means of an annular fillet instead of the catch and hinge, and in that case is retained by the pressure of the fit only.

What we do claim as our invention, and desire to secure by Letters Patent, is—

1. In an axle-cap, the combination, with the oil-receptacle C, face-plate A, provided with a central hole, and plug E, of a lid D, hinged to the face-plate A and cupped on its inner side, whereby when the lid is shut upon the plate A the plug E abuts against the hole B, substantially as and for the purpose specified.

2. In an axle-cap, the combination, with the oil-receptacle C, face-plate A, provided with a central hole, and plug E, of lid D, hinged to plate A and cupped on its inner side, and catch F, substantially as and for the purpose specified.

Dated this 14th day of August, 1890.

WILLIAM LOUIS FRANCIS WASTELL.  
EDWIN THOMAS DAY.

Witnesses:

GEO. THOS. HYDE,  
S. EARL.