

No. 682,704.

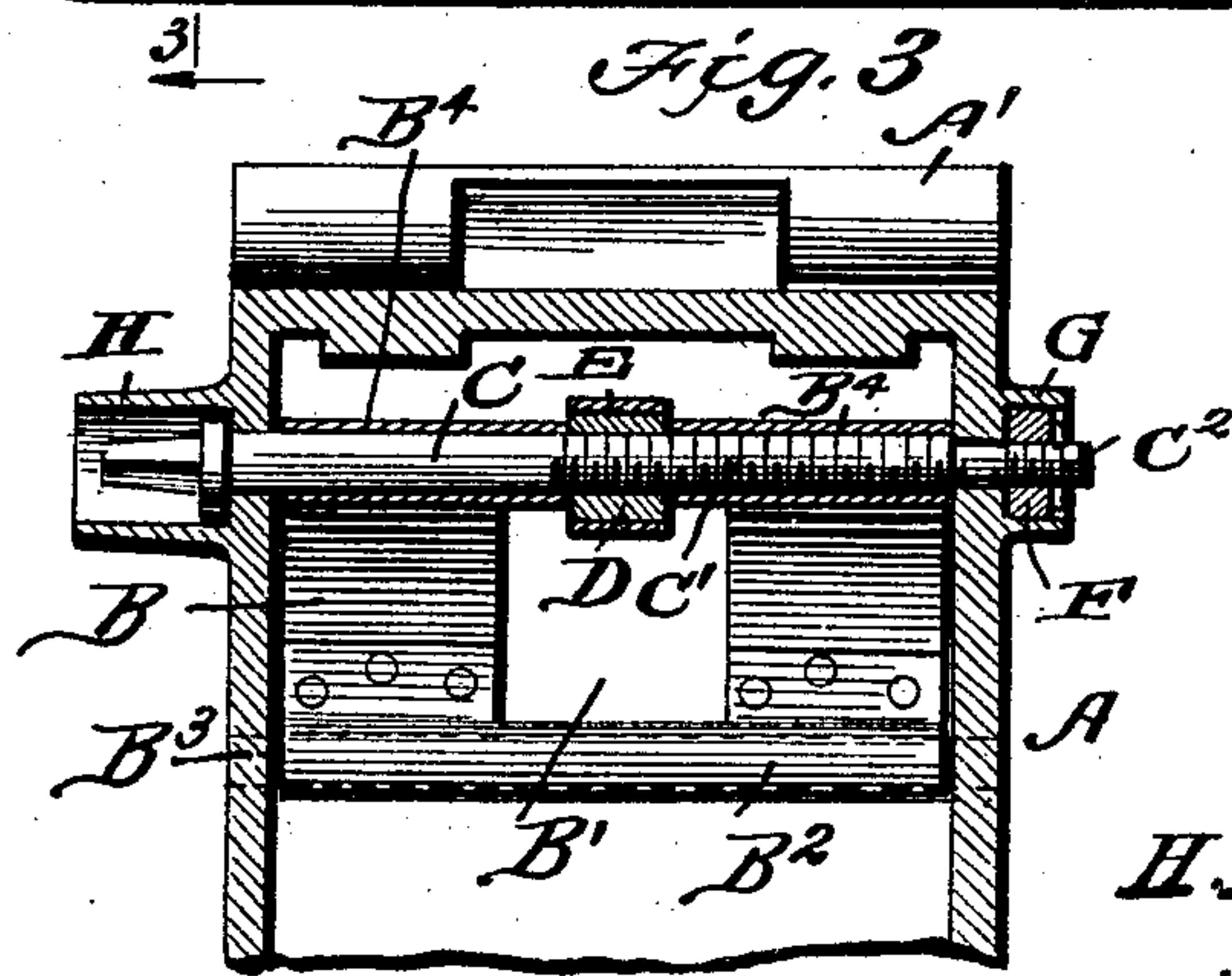
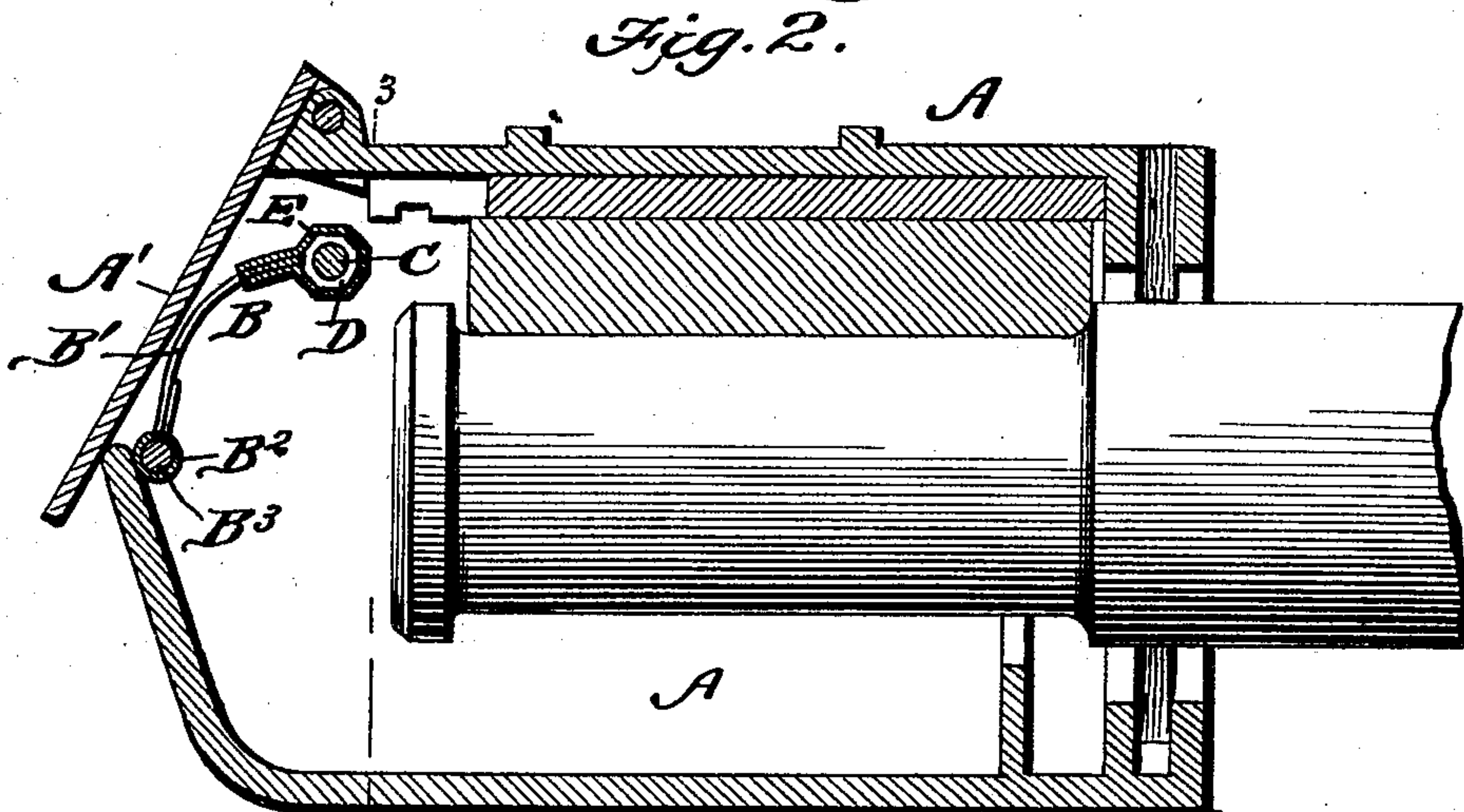
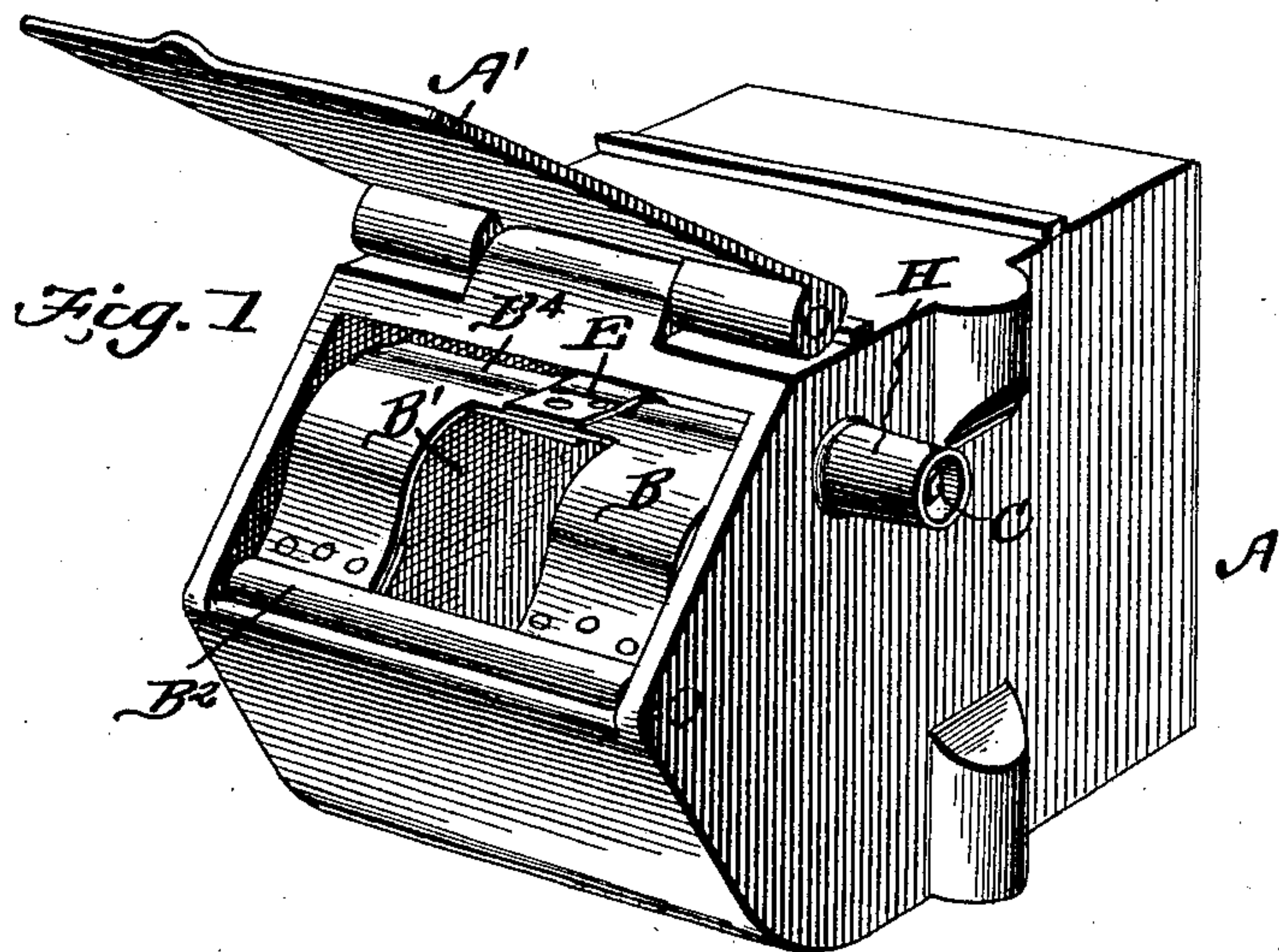
Patented Sept. 17, 1901.

H. F. W. JAEGER.

CAR AXLE BOX.

(Application filed Apr. 6, 1901.)

(No Model.)



Witnesses  
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# UNITED STATES PATENT OFFICE.

HEINRICH FRIEDRICH WILHELM JAEGER, OF SANDUSKY, OHIO, ASSIGNOR  
OF ONE-HALF TO GEORGE M. GRAMLICH, OF SAME PLACE.

## CAR-AXLE BOX.

SPECIFICATION forming part of Letters Patent No. 682,704, dated September 17, 1901.

Application filed April 6, 1901. Serial No. 54,682. (No model.)

*To all whom it may concern:*

Be it known that I, HEINRICH FRIEDRICH WILHELM JAEGER, a citizen of the United States, residing at Sandusky, in the county of Erie and State of Ohio, have invented a new and useful Car-Axle Box, of which the following is a specification.

This invention relates generally to car-axle boxes, and more particularly to a guard adapted to be arranged within the journal-box for the purpose of preventing theft of the journal-brasses; and with this object in view the invention consists, essentially, in arranging a guard-plate in the front of the journal-box, said plate having an opening through which oil can be introduced and provided with a locking means for fastening the plate within the box.

The invention consists also in certain details of construction and novelties of combination, all of which will be fully described hereinafter and pointed out in the claims.

In the drawings forming part of this specification, Figure 1 is a perspective view showing the practical application of my invention. Fig. 2 is a vertical longitudinal section of the box, and Fig. 3 is a section on the line 3 3 of Fig. 2 looking in the direction of the arrow.

Referring to the drawings, A indicates the ordinary construction of journal-box in which the car-axle is journaled, the usual form of journal-brasses being also arranged within the box. The box A is provided with the usual construction of hinged front A', through which cotton-waste and lubricating-oil is introduced into the journal-box. Owing to the value of the journal-brasses, they are frequently stolen, and in order to prevent this I arrange a guard-plate B in the front portion of the journal-box, said plate being preferably made of sheet metal and curved, as shown, in order to clear the end of the journal or axle in case the end of the axle should extend close to the lid of the box. This plate has a central opening B', through which oil can be introduced for the purpose of lubricating the journal. The plate may be secured in any suitable manner; but in practice I prefer to form the lower end with a tube or sleeve B<sup>2</sup>, through which a pivot-bolt B<sup>3</sup> is passed, the ends of said bolt being headed flush with

the outer face of the journal-box. The upper end of the plate is formed with a tube or sleeve B<sup>4</sup>, through which passes a rod C, said rod being threaded for the greater portion of its length, as shown at C', for the purpose of engaging a nut D, held in a clip E, secured centrally to the upper portion of the plate or tube, the sleeve B<sup>4</sup> being cut away, as shown, to receive the nut D. The extreme end of the rod is threaded, as shown at C<sup>2</sup>, and engages a nut F, located in a socket-housing G, formed upon the side of the journal-box. The opposite end of the rod C is located in a housing H, arranged also upon the side of the box, and this end so housed is made polygonal in cross-section to receive an operating-key, by means of which the rod can be turned. The threads upon the rod are left-hand. When it is desired to place the guard in position, the bolt B<sup>3</sup> is passed through the lower sleeve B<sup>2</sup>, and the threaded rod is then passed through the upper sleeve, the reduced end screwing into the nut F, while the larger threaded portion engages the nut D. The operating end of the rod being protected by a housing and the nut F being protected by a housing also, it will be seen that interference is impossible, as it will be necessary to have a proper key in order to turn the rod C. The journal-bearing can be oiled by placing the spout of the oil-can through the central opening B'. Whenever it is desired to open the front of the box, so that access can be had to the bearings and brasses, the key is fitted upon the end of the rod and turned until the reduced end is disengaged, and by continuing to turn the rod it can be withdrawn entirely from the upper tubular portion of the plate. The plate can then be swung outwardly upon the pivot-bolt B<sup>3</sup> and access had to the interior of the box. It will thus be seen that I provide a simple, cheap, and efficient attachment capable of carrying out all of the objects mentioned in the fore part of this specification.

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

1. The combination with a car-axle journal-box, of a curved guard-plate having a central opening and pivot-bolt passing through the lower end of the said plate, and a threaded



locking-bolt passing through the upper end of the plate and a nut arranged upon the exterior of the box, substantially as shown and described.

5 2. The combination with the journal-box, of the guard-plate having tubes or sleeves formed at the upper and lower edges, a pivot-bolt passing through the lower tube or sleeve, and a threaded rod or bolt passing through  
10 the upper tube or sleeve, a nut arranged upon the exterior of the journal-box, and a nut also arranged intermediate the ends of the upper tube or sleeve and adapted to be engaged by the threaded rod or bolt, substantially as  
15 shown and described.

3. The combination with a car-axle box, of a guard-plate having a central opening, said plate having the upper and lower tubes or sleeves, the pivot-bolt passing through the

lower sleeve, a threaded rod or bolt passing 20 through the upper tube or sleeve, the end of said rod or bolt being reduced and threaded, a nut adapted for engagement with the said reduced end, and the housing in which the said nut is held, a clip arranged centrally 25 upon the upper edge of the guard-plate, a nut arranged in said clip and adapted for engagement with the threaded rod or bolt, the operating end of said rod or bolt projecting beyond the axle-box and made polygonal in 30 cross-section, and a housing for protecting said polygonal-shaped end, substantially as and for the purpose described.

HEINRICH FRIEDRICH WILHELM JAEGER.

Witnesses:

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LOUIS PREDIGER.