

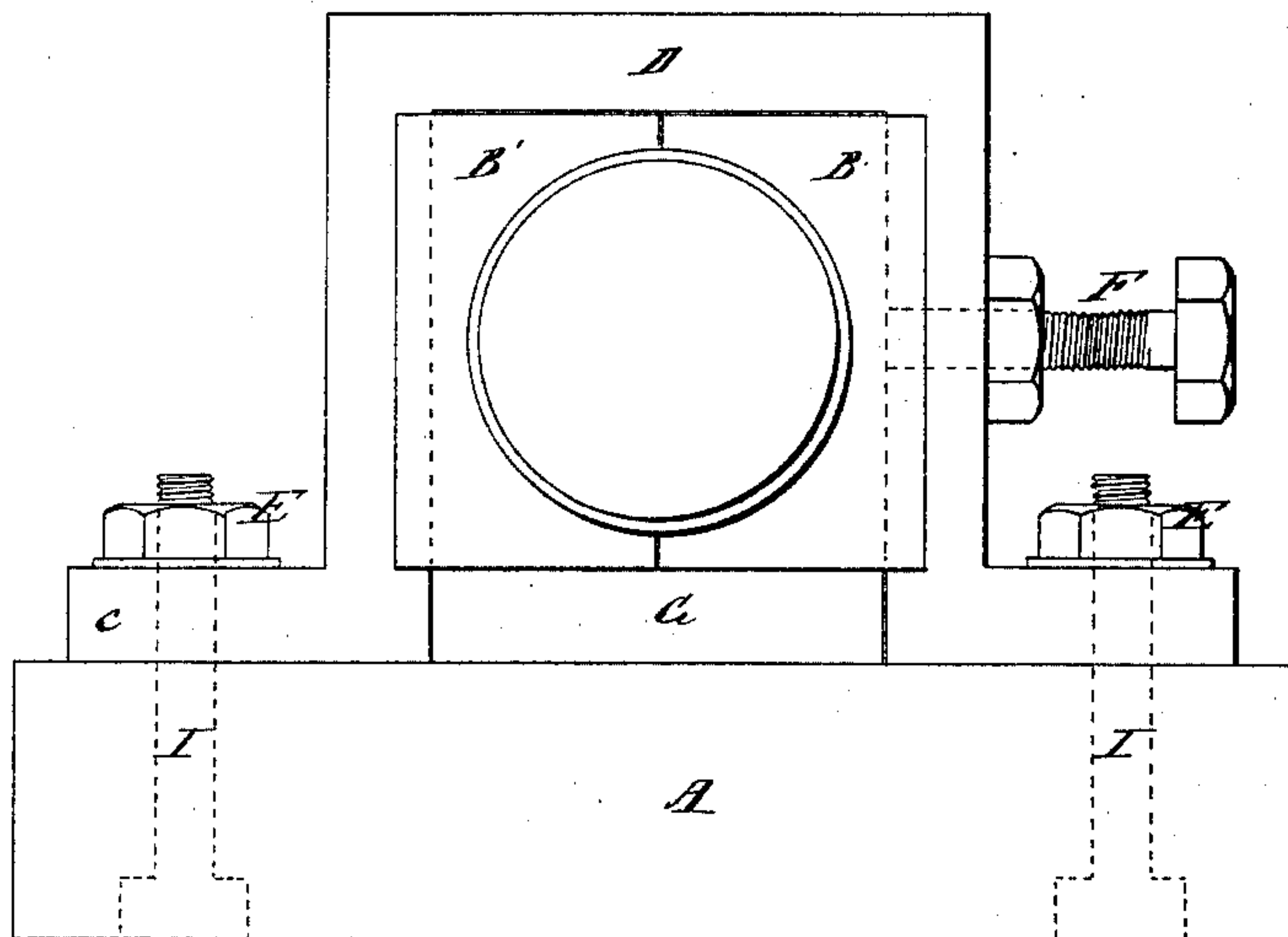
*G. H. Reynolds,*

*Journal Box.*

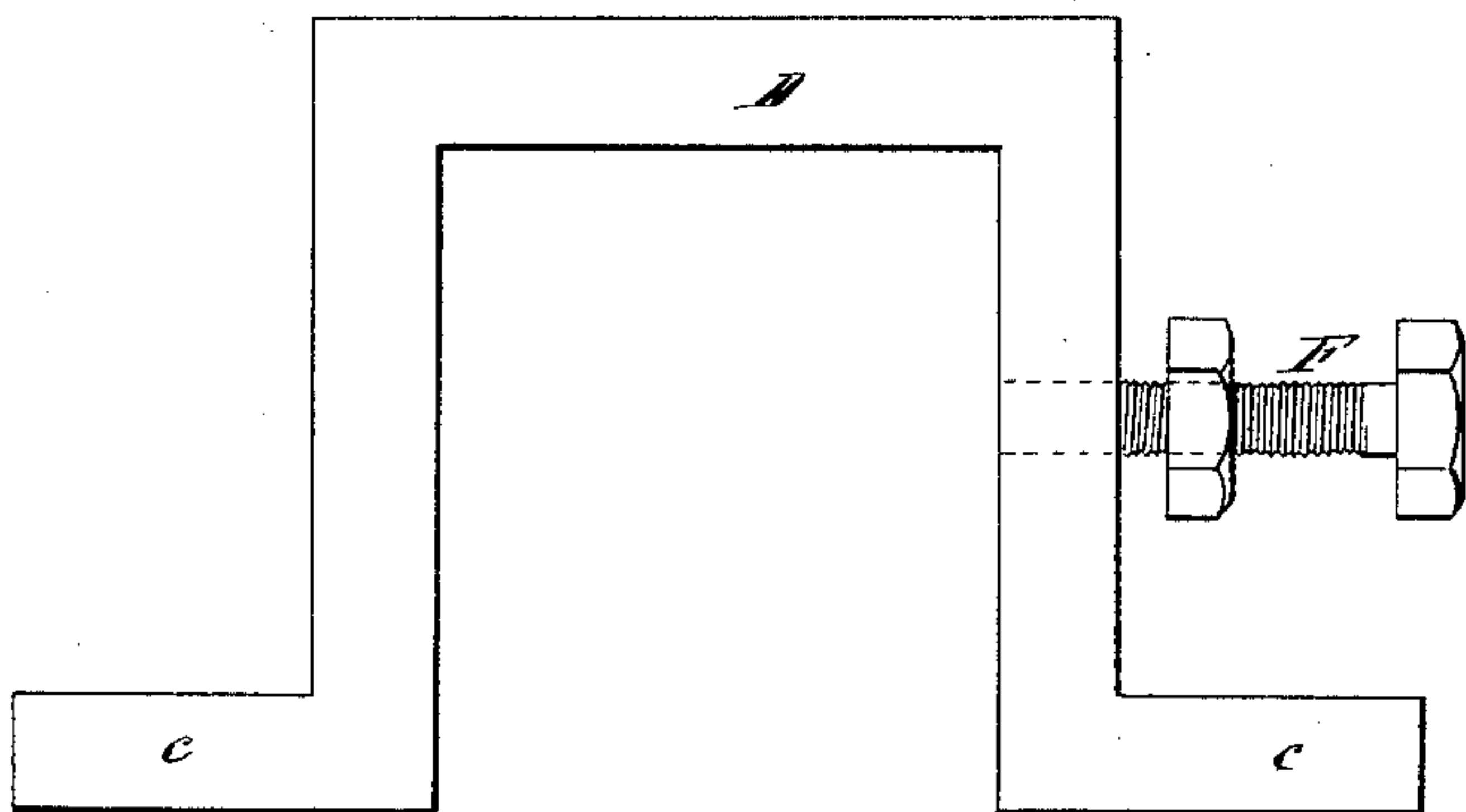
*N<sup>o</sup> 17,716.*

*Patented June 30, 1857.*

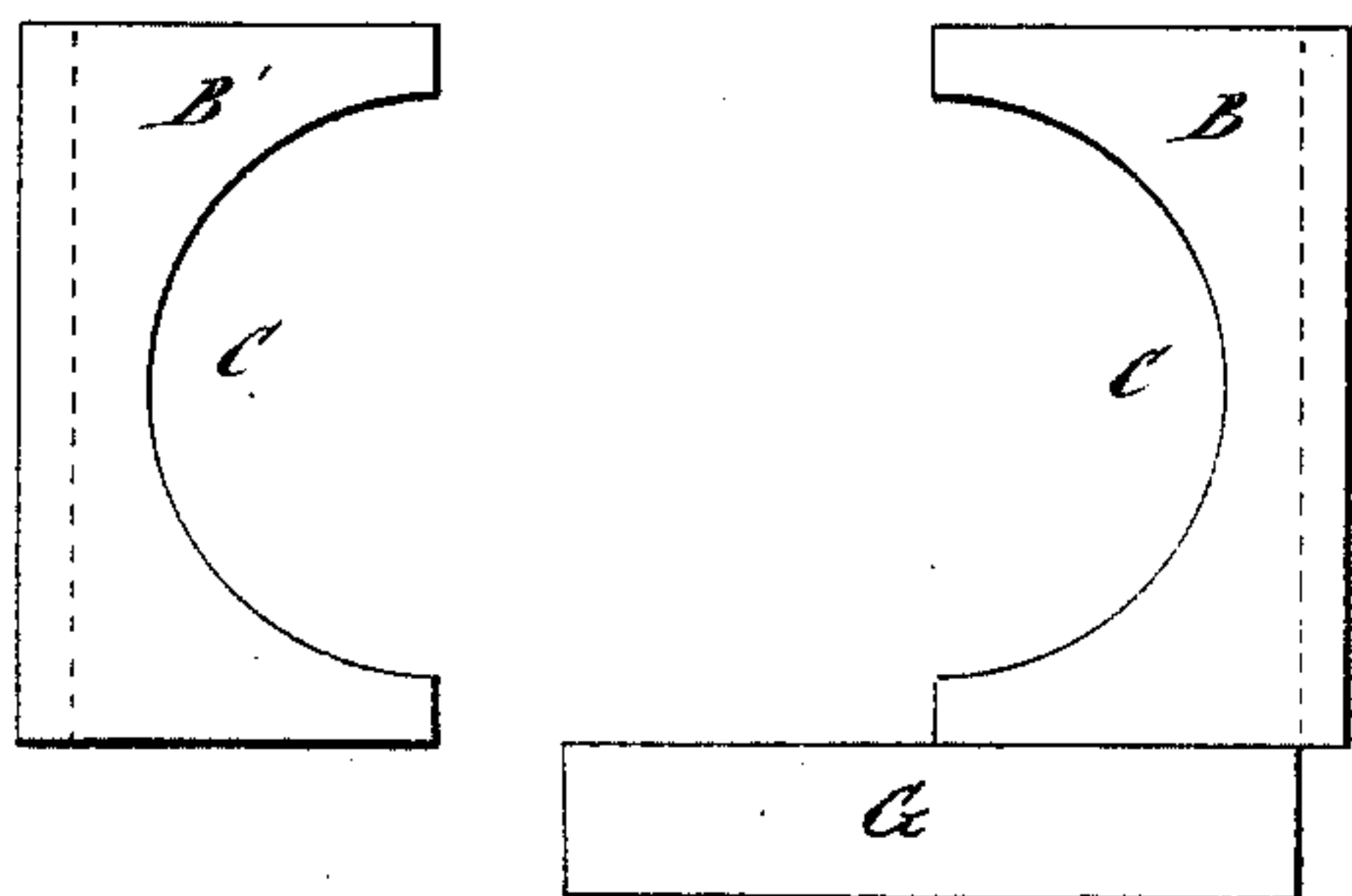
*Fig. 1*



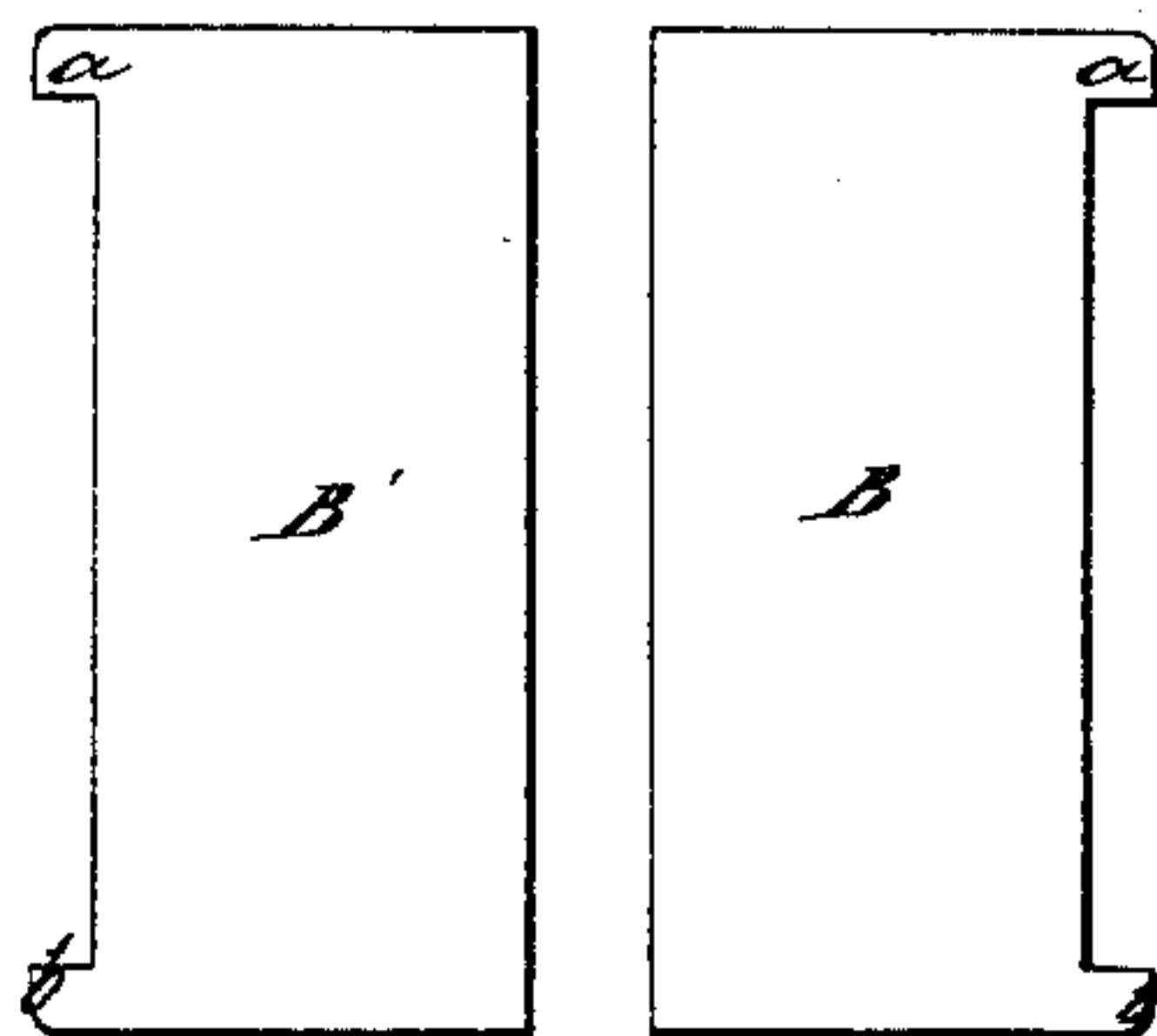
*Fig. 3*



*Fig. 2*



*Fig. 4*



# UNITED STATES PATENT OFFICE.

GEORGE H. REYNOLDS, OF MEDFORD, MASSACHUSETTS, ASSIGNOR TO HIMSELF, AND D. B. HINCKLEY, OF BANGOR, MAINE.

## STRAP PILLOW-BLOCK FOR SHAFTING, &c.

Specification of Letters Patent No. 17,716, dated June 30, 1857.

*To all whom it may concern:*

Be it known that I, GEO. H. REYNOLDS, of Medford, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Journal Boxes or Bearings for Shafting of Machinery, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making  
10 part of this specification, in which—

Figure 1 is an end view of my improved journal box and strap. Fig. 2, the bushings or parts of the box detached from the shaft. Fig. 3 the strap which secures these parts  
15 together and to the foundation. Fig. 4 a plan of the bushings.

In pillow blocks of engines and journal boxes for shafting of heavy machinery as heretofore constructed, their removal for re-  
20 pairs or cleaning has been an expensive and laborious operation, necessitating the raising of the shaft for this purpose.

To obtain a journal box that can be readily applied to, or removed from shafting  
25 by simply blocking up the shaft in its place, and at the same time may be secure and firm, is the object of my present invention.

To enable others skilled in the art to understand and use my invention, I will proceed to describe the manner in which I have  
30 carried out the same.

In the accompanying drawings, A is the bed or foundation on which rests the box, composed of the two pieces or bushings  
35 B, B', which fit together around the shaft, being cut away in the center at C, C, to receive it. The piece B has on its lower side the projection or foot G, which rests upon the bed A, the piece B' resting on G, when  
40 in position.

B and B' have on their outer sides, flanges a, b, between which fits the strap D, Fig. 3, which serves to secure the box to the bed A.

This strap has on its lower sides flanges c, through which pass bolts I, with nuts E, se- 45 curing the straps to the bed A.

F is a set screw passing through one side of D, by means of which the piece B' may be forced up to B, if required.

I will now describe the mode of attaching 50 my improved box to its shaft. The shaft having been blocked up in place, the piece B is placed against it on one side, the foot G resting on the bed A. The piece B' is brought up against the shaft on the other 55 side, the bottom of B' resting upon G. The strap D is now slipped down over the box, fitting into the recess between the flanges a, b, and is secured to the bed A by the bolts I and nuts E, the flanges a, b, preventing any 60 motion longitudinally on the shaft. To hold the pieces B, B', more firmly together or to move them up as the box wears, the set screw F may be used. It is evident that the box may be easily removed by blocking up 65 the shaft and reversing this mode of proceeding.

Heretofore I have spoken of my improved box as applied to engines and shafting of machinery, but it is applicable to most all 70 kinds of journal bearings, but more especially to those that require frequent removal, or those of greater weight.

I do not claim dividing journal boxes vertically, as this has been done before, but 75

What I do claim as my invention, and desire to secure by Letters Patent, is—

The above-described journal box, consisting essentially of the pieces or bushings B, B', and strap D, constructed and operating 80 in the manner and for the purpose herein set forth.

GEO. H. REYNOLDS.

Witnesses:

SAM. COOPER,

P. E. TESCHEMACHER.