

A. G. BROWN.  
JOURNAL BOX.

No. 113,490.

Patented Apr. 11, 1871.

Fig. 1.

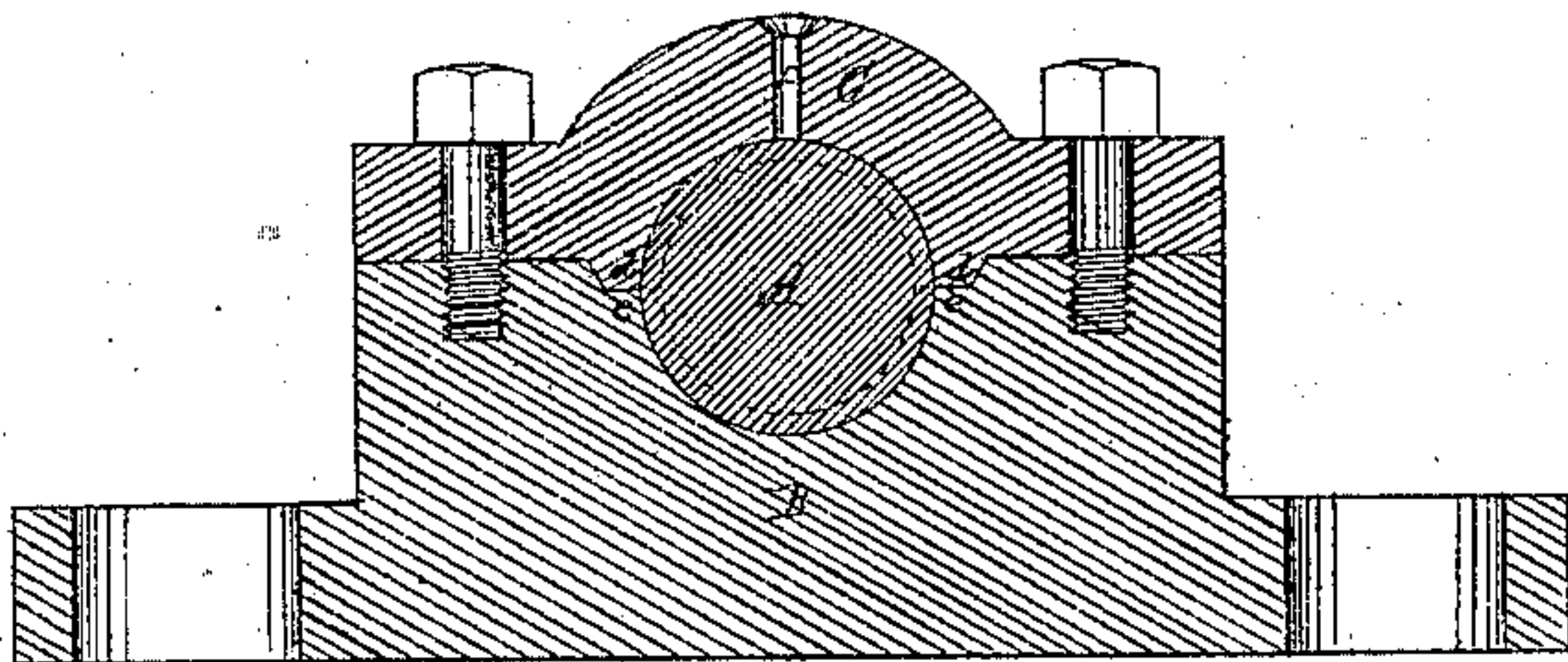


Fig. 2.

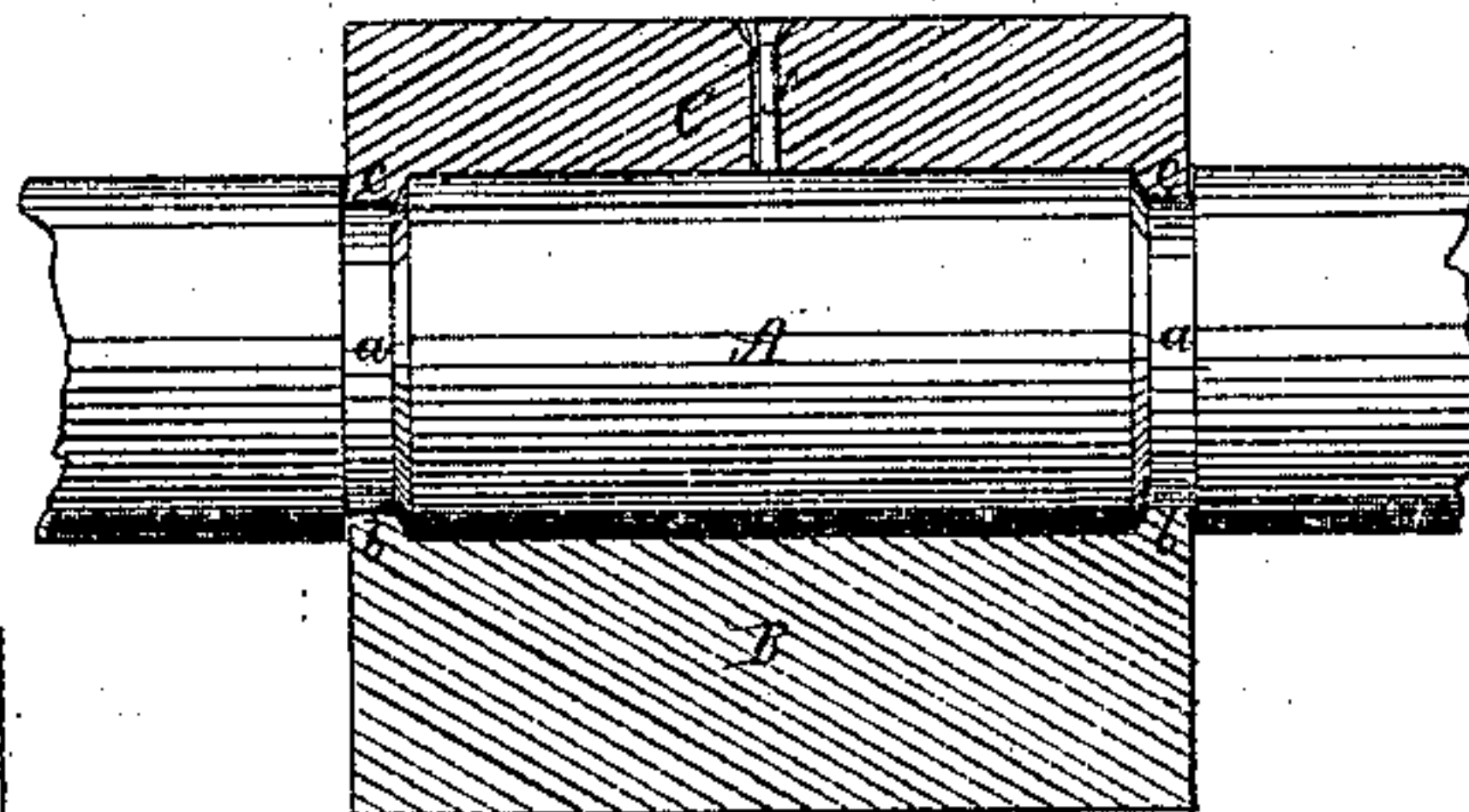


Fig. 3.

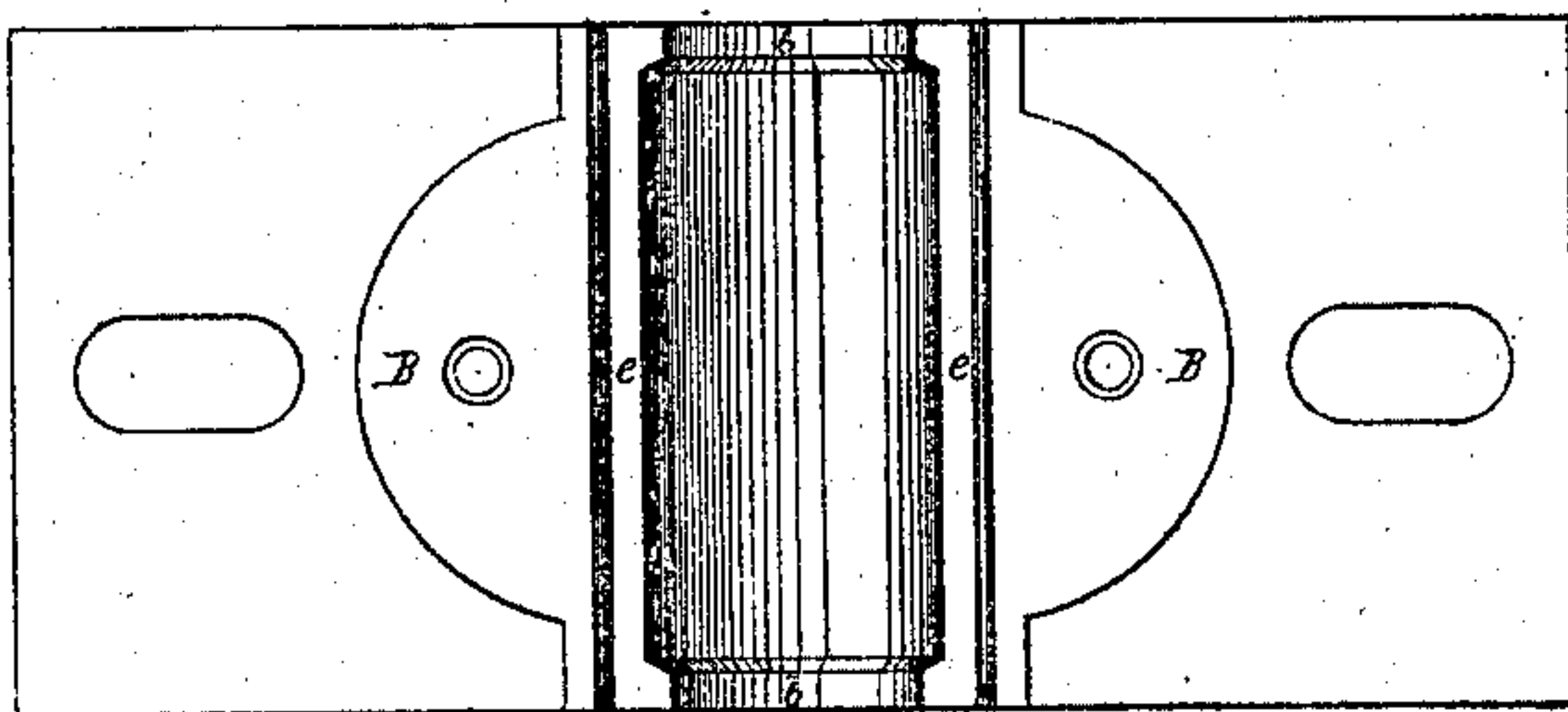


Fig. 5.

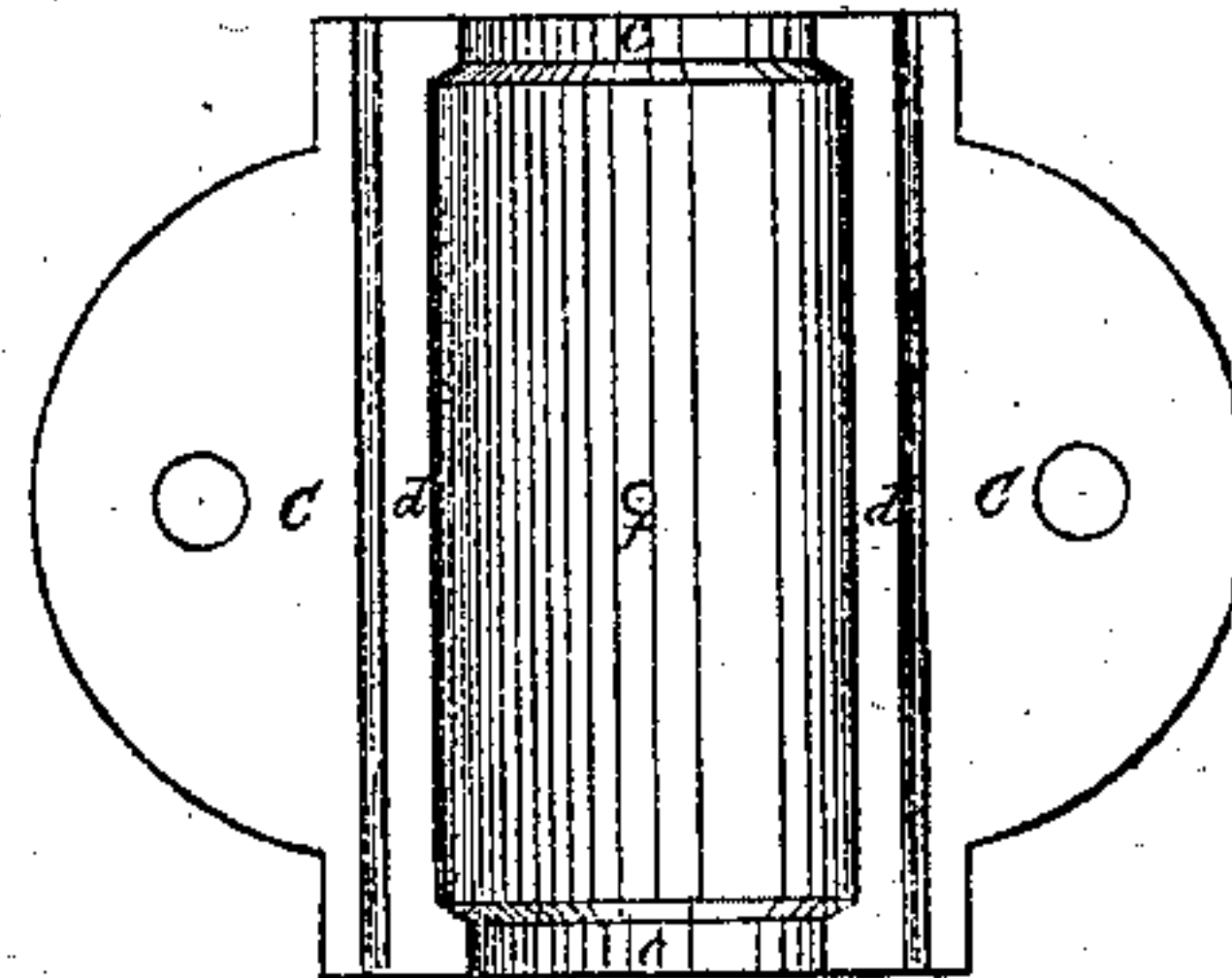


Fig. 4.

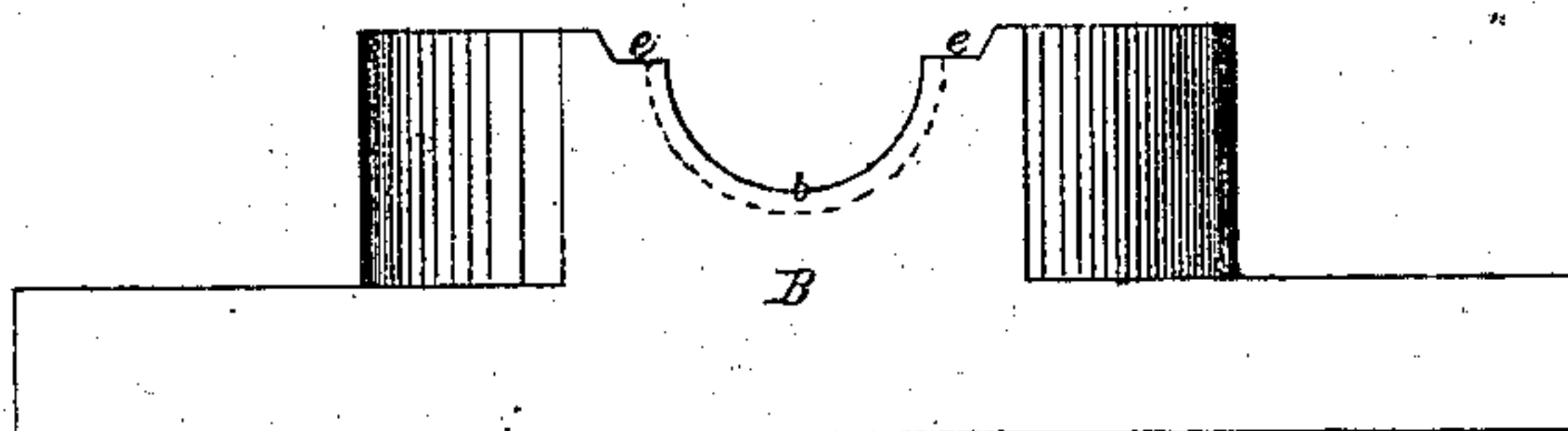
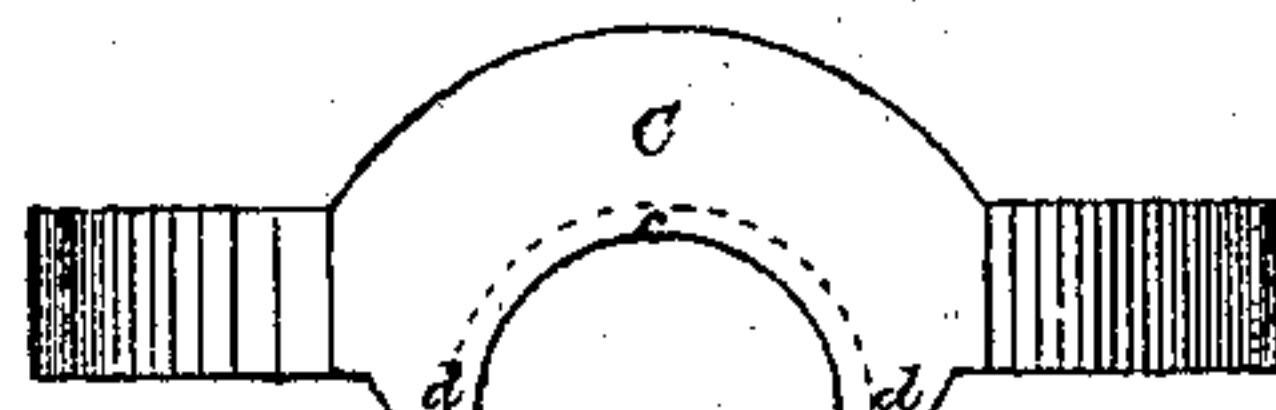


Fig. 6.



Witnesses  
S. N. Piper  
J. R. Brown

Arthur G. Brown.  
by his attorney.  
R. H. Eady

# United States Patent Office.

ARTHUR GIBSON BROWN, OF WAREHAM, MASSACHUSETTS.

Letters Patent No. 113,490, dated April 11, 1871.

## IMPROVEMENT IN JOURNAL-BOXES.

The Schedule referred to in these Letters Patent and making part of the same.

*To all persons to whom these presents may come:*

Be it known that I, ARTHUR GIBSON BROWN, of Wareham, of the county of Plymouth, of the State of Massachusetts, have invented a new and useful Improvement in Shaft-Journals and their Bearings or Boxes; and I do hereby declare the same to be fully described in the following specification and represented in the accompanying drawing, of which—

Figure 1 is a transverse section, and

Figure 2 a longitudinal section of a shaft-journal and its box provided with my invention.

Figure 3 is a top view, and

Figure 4 a side elevation of the box

Figure 5 is a bottom view, and

Figure 6 a side view of the cap.

In carrying out the said invention I construct the journal A with two grooves, *a a*, extending transversely around it at right angles to its axis, and I make the box B and its cap C with two flanges *b b c c* to extend inward from the opposite ends of their bearing-surfaces and into the said grooves, the flanges, when the cap is on the box and the journal on them, going entirely around the said journal, and serve to retain in the box the oil or fluid that may be used for its lubrication.

The cap of the box I also construct with tongues

*d d*, to extend from its bottom down into corresponding parallel rebates *e e*, made in the box on opposite sides of the shaft-seat or bearing.

The tongues and rebates serve also to keep the oil within the box or from being expelled through the joint of the cap and the box, and also answer to keep the cap in place and save its fastening-bolts from strain of the journal.

The space between the flanges of the box and those of the cap constitute an oil-receiving cavity, which, for the reception of oil, is provided with a mouth, *f*, or hole made at the center of the cap.

I do not claim the journal A as constructed with the grooves *a a*, and the box and cap as provided with the flanges *b b c c* to enter such grooves, all being arranged as set forth; but

What I do claim as my invention is—

The journal as constructed with the grooves *a a*, and the box and cap as provided with the flanges *b b c c* and the tongues *d d* and rebates *e e*, all arranged as specified.

ARTHUR GIBSON BROWN.

Witnesses:

R. H. EDDY,

J. R. SNOW.