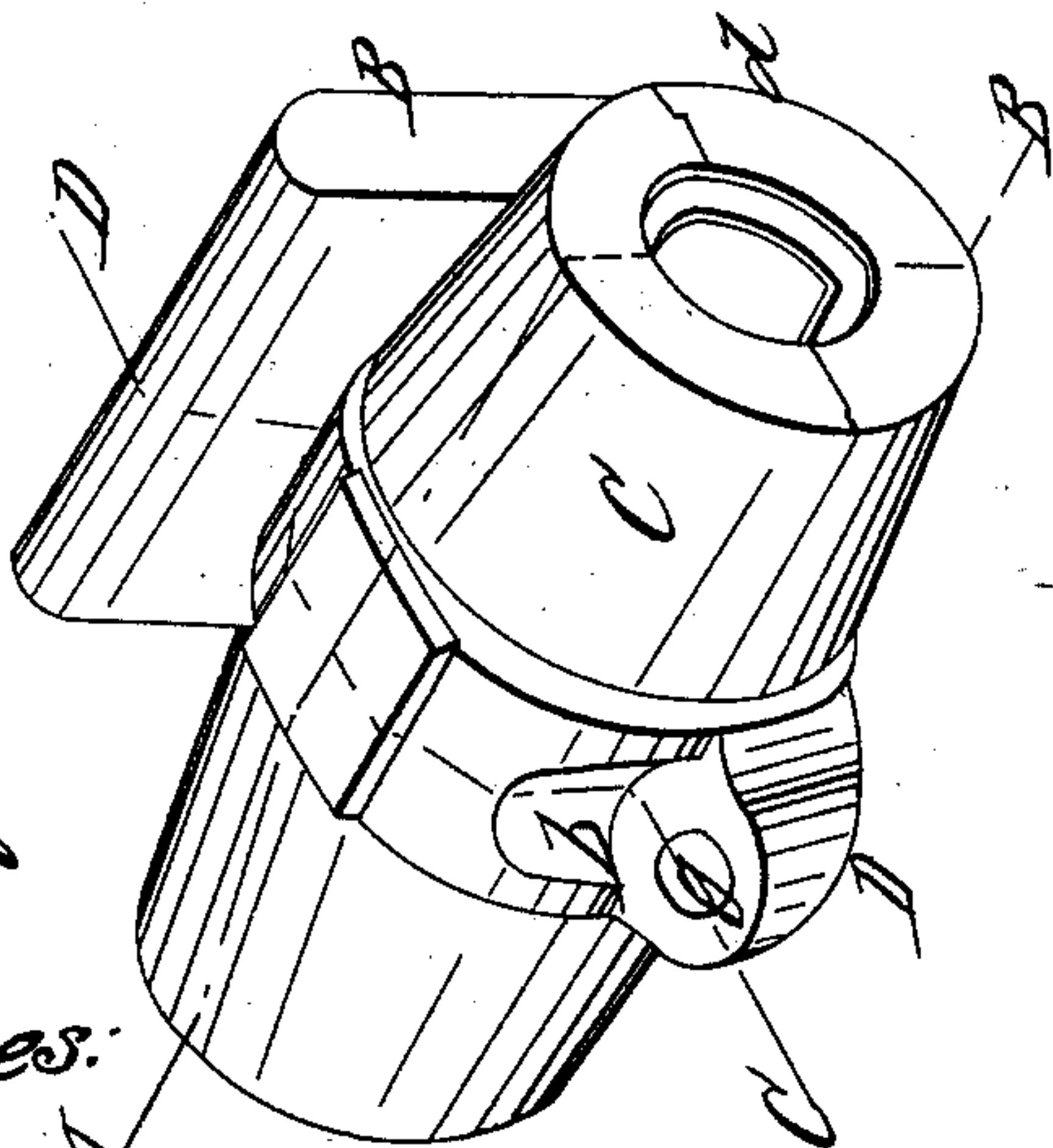
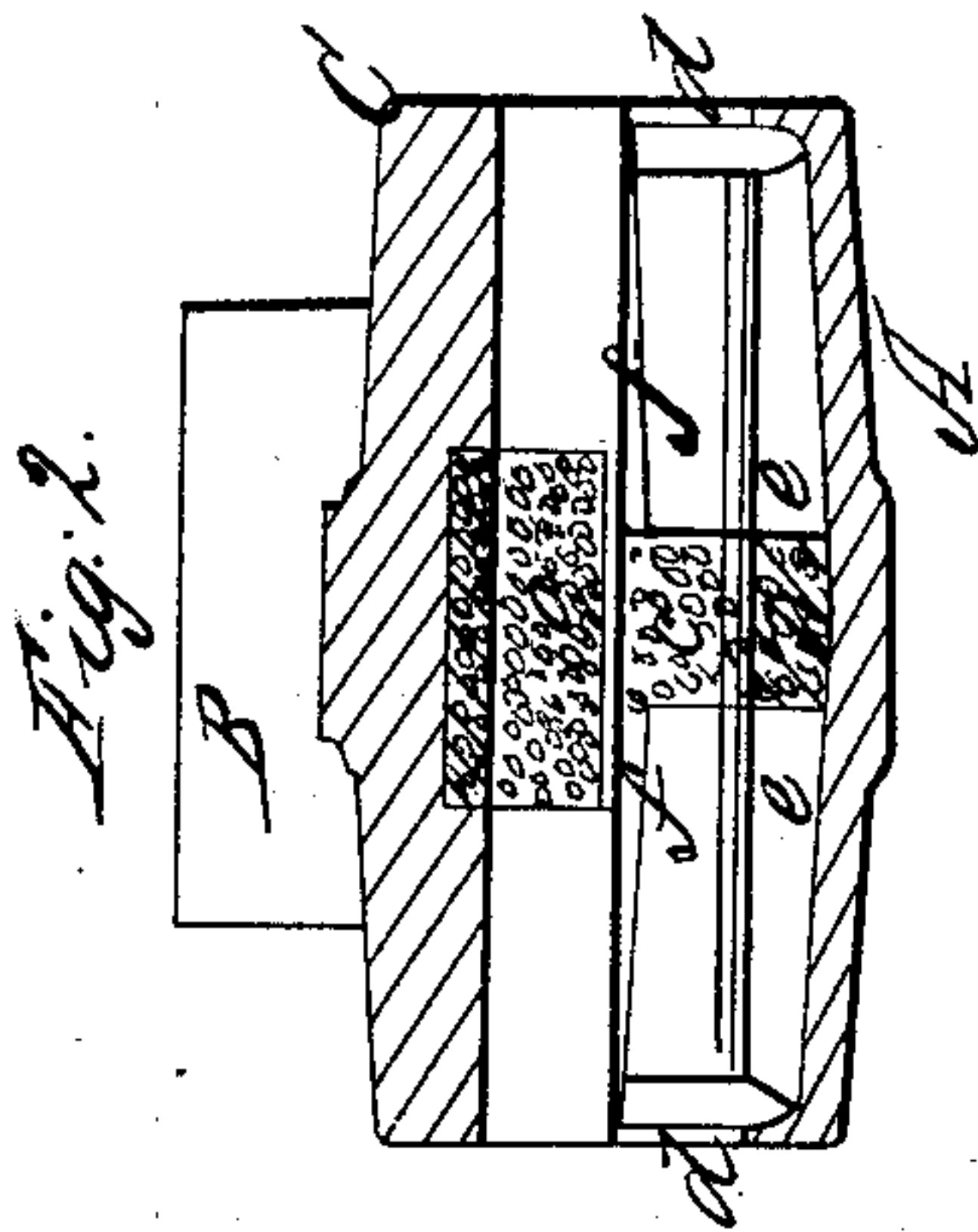


*E. F. Light,
Journal Box.*

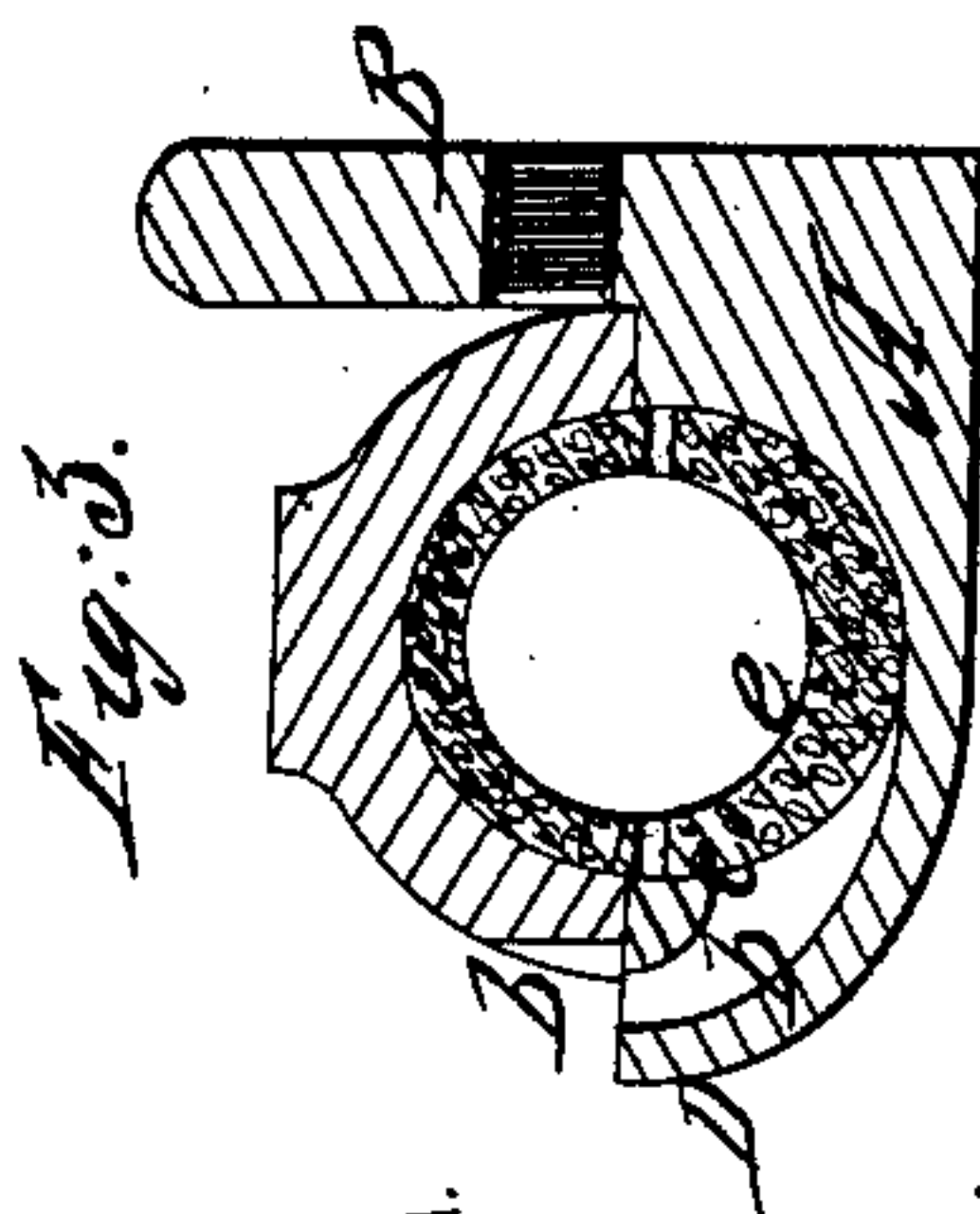
N^o 69,822.

Patented Oct. 15, 1867.



Witnesses:

*Thos. H. Dodge
D. L. Miller*



Inventor:

Edmund F. Light

United States Patent Office.

EDWARD F. LIGHT, OF WORCESTER, MASSACHUSETTS,

Letters Patent No. 69,822, dated October 15, 1867.

IMPROVEMENT IN JOURNAL-BOX.

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

KNOW ALL MEN BY THESE PRESENTS:

That I, E. F. LIGHT, of the city and county of Worcester, and Commonwealth of Massachusetts, have invented certain new and useful Improvements in Journal-Boxes; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a perspective view of my improved journal-box.

Figure 2 represents a longitudinal central section on line A B, fig. 1, and

Figure 3 represents a cross-section on line C D, same figure.

To enable those skilled in the art to which my invention belongs to make and use the same, I will proceed to describe it more in detail.

In the drawings, the part marked A is the bottom of the box, and has in this instance combined with it the stand or buck B, through which a bolt passes to fasten the box in place. C is the cap, which is made tight on top, or without the usual oil-hole. It is chambered out upon the inside, and which chamber may be filled with some fibrous material, *a*, if desired. The cap C is also curved or recessed out, as shown at *b*. The bottom A of the box is chambered out upon the inside, as seen at *c*, and which chamber is connected with the end grooves *d d* by a longitudinal groove, *e*, in the bottom of the box. The upper inner sides of the part A are chambered or cored off so as to form inclined ways *f f* from the end grooves *d d* to the chamber or recess *c*. The front part A is provided with a projection, D, through which an oil-hole, *g*, passes, and communicates with the chamber *c* and groove *e* in the bottom of the part A. The oil-hole may be stopped to prevent the entrance of dust and dirt. Chamber *c* and groove *e* may be filled with some fibrous material, *h*, as shown in the drawings.

The operation is as follows: Oil or some lubricating substance is turned into the hole *g*, when it descends and fills or partially fills the groove *e*, and is taken up and brought in contact with the bearing of the shaft by means of the fibrous material *h*. If any of the lubricating substance is forced upon the ways *f f*, it runs back into the recess or chamber *c*, and from thence to groove *e* again, while if any of the lubricating substance is forced out at the ends of the box it is caught by the grooves *d d* and returned to the groove *e*. The operation is so perfect that one supply of oil will last for months. The top of the projection D may be concaved out to facilitate and prevent the waste of oil when applied.

Having described my improved journal-box, what I claim therein as new, and of my invention, and desire to secure by Letters Patent, is—

The combination of the projection D, oil-hole *g*, and grooves *d d* and *e*, and inclined ways *f f*, and chamber *c*, with the bottom part A of the journal-box for the purposes stated.

EDWARD F. LIGHT.

Witnesses:

THOS. H. DODGE,

D. L. MILLER.