

No. 711,849.

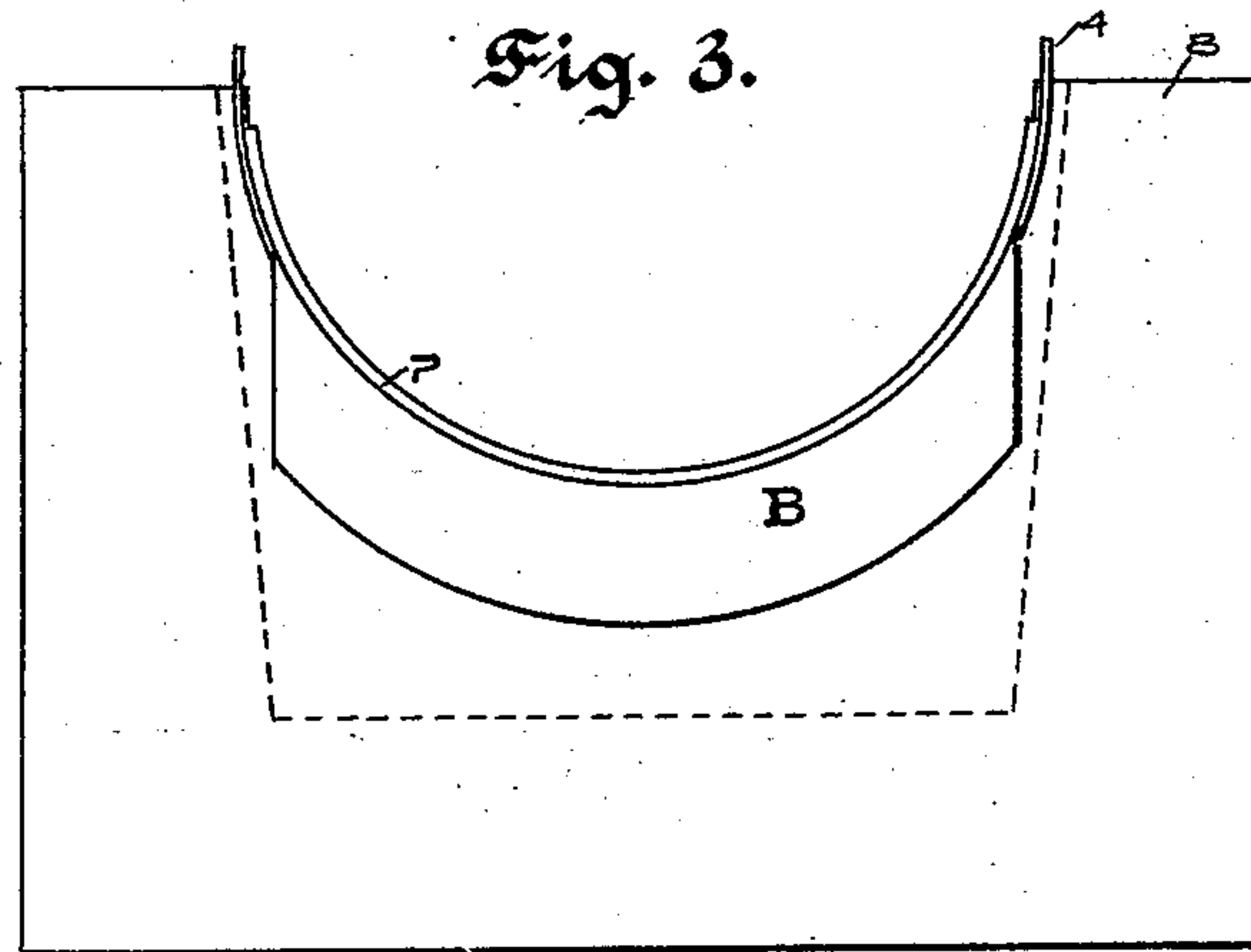
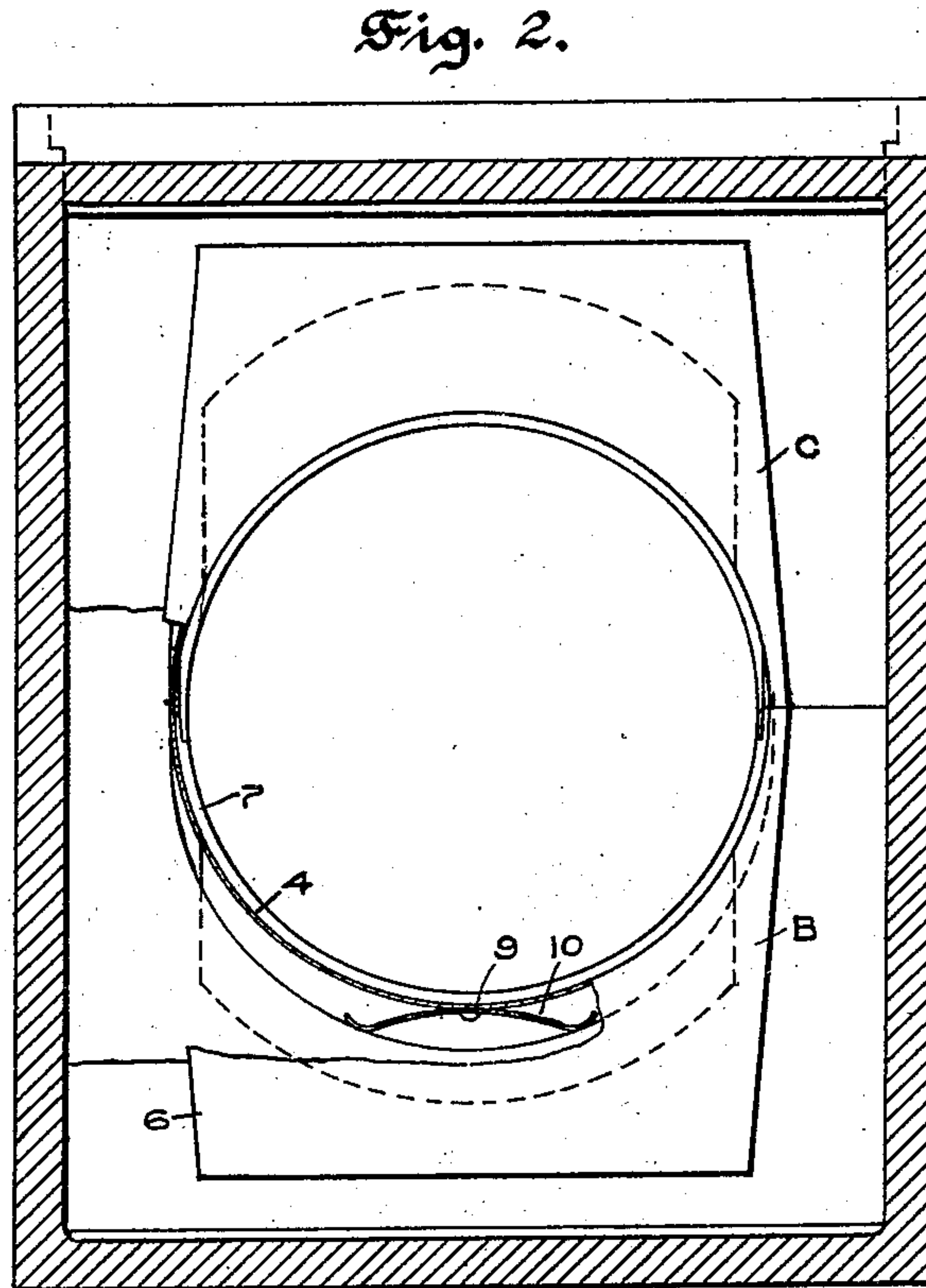
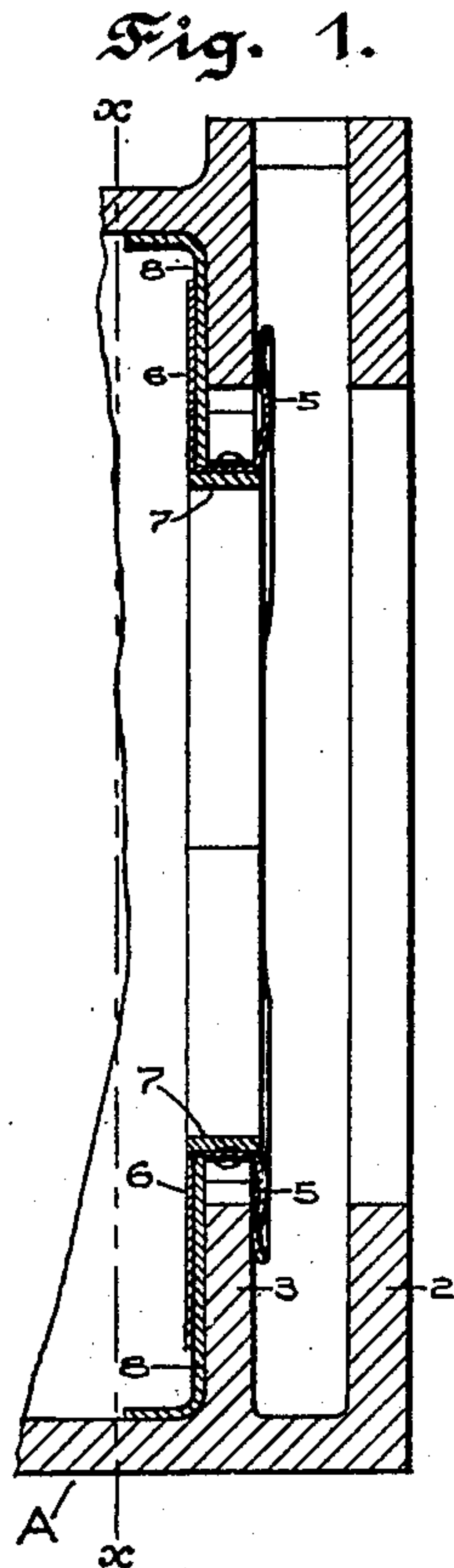
Patented Oct. 21, 1902.

F. HACHMANN.

OIL GUARD FOR JOURNAL BOXES.

(Application filed Apr. 26, 1901.)

(No Model.)



Witnesses,  
William H. Palmer.  
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# UNITED STATES PATENT OFFICE.

FREDERICK HACHMANN, OF ST. PAUL, MINNESOTA, ASSIGNOR OF SEVENTH EIGHTHS TO ARTHUR DAY WARD AND CHARLES L. WELLS, OF ST. PAUL, MINNESOTA.

## OIL-GUARD FOR JOURNAL-BOXES.

SPECIFICATION forming part of Letters Patent No. 711,849, dated October 21, 1902.

Application filed April 26, 1901. Serial No. 57,538. (No model.)

*To all whom it may concern:*

Be it known that I, FREDERICK HACHMANN, a citizen of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, (whose post-office address is 599 Lawson street,) have invented certain new and useful Improvements in Oil-Guards for Journal-Boxes, of which the following is a specification.

My invention relates to improvements in means for preventing oil in journal-boxes being wasted through the opening around the axle; and to this end it consists in the features of construction and combination hereinafter specifically described and claimed.

In the accompanying drawings, forming part of this specification, Figure 1 is a vertical section of the inner end of the journal-box. Fig. 2 is a section on line *xx* of Fig. 1 looking toward the oil-guards and being partly broken away, and Fig. 3 is a detail view of my invention removed from the journal-box.

In the drawings, A indicates a journal-box. 2 represents the inside end wall of the journal-box, and 3 an inner parallel wall constituting an intermediate space in which are adapted to be arranged dust-guards of any desired construction.

In connection with the wall 3 and adapted to prevent the oil wasting around the axle into the dust-guard chamber is arranged my invention. In the form shown in the drawings this consists of the semicircular metal slide B, the upper wall 4 of the slide being conformed to the shape of the axle and provided with a suitable facing 7 and the downwardly-extending walls 5 and 6 standing parallel with the opposite sides of the bottom of the wall 3. To prevent the oil passing from the inside of the journal-box underneath the slide, I secure a strip of leather or other suitable material 8 to the inside of the slide, the said strip projecting downward below the bottom of the wall 6 and forming a close joint between the wall 6 of the slide and the adjacent face of the journal-box wall 3.

Secured to the inside of the slide B by means of a bolt 9 is the spring 10, the oppo-

site ends of said spring bearing against the adjacent surface of the journal-box wall 3. It will be evident that by means of this spring the slide is held tightly against the axle. The inner wall 5 of the slide is curved inward, as shown, to form a spring and hold the opposite wall of the slide tightly against the wall 3 of the journal-box. I also preferably arrange in connection with the slide B a similarly-constructed slide C, fitting over the wall 3 at the top of the axle-opening. The slides B and C preferably overlap at the sides of the axle-opening, as shown, the overlapping ends of the leather facing 7 being cut, as shown in Fig. 2, to make the ends flush.

In using my improved device dust-guards of any desired construction are intended to be placed in the dust-guard chamber. The slides B and C are then placed in the axle-opening, as shown. When in place, the springs 10 will hold the slides tightly against the axle and the spring member 5 of each slide will hold the inner wall of the slide tightly against the wall 3 of the journal-box, thus preventing any leakage of oil from the journal-box. Where desired, the upper slide C may be dispensed with and the slide B alone used.

It will be evident that the construction shown may be modified without departing from the idea of the invention, the scope of which is defined by the following claims.

I claim—

1. In combination with the journal-box wall formed with an opening to receive the axle, a metal slide arranged in said opening formed with downwardly-bent sides fitting over the adjacent edge of the journal-box wall, a facing-strip secured to the outer face of said slide, and spring means normally holding said slide against the axle.

2. In combination with a journal-box wall formed with an axle-opening, a metal slide arranged in said opening and formed with two downwardly-bent sides fitted against the opposite sides of the adjacent edge of the journal-box wall, and means for holding said slide against the axle.

3. In combination with the journal-box wall



formed with an opening to receive the axle, a metal slide arranged in said opening and formed with downwardly-bent sides fitting over the adjacent edge of the journal-box wall, a facing-strip held between one of said sides and the adjacent face of the wall, and spring means normally holding said slide against the axle.

4. In combination with the journal-box wall formed with an opening to receive the axle, similar metal slides arranged in said opening, each of said slides being bent to form parallel walls fitting over the adjacent edge of the journal-box wall, and spring means normally holding said slides pressed against the axle.

5. In combination with the journal-box wall formed with an opening to receive the axle, a slide arranged in said opening, outwardly-extending flanges carried by said slide and fitting against the opposite sides of the adjacent edge of the journal-box wall, a facing carried by one of said flanges, one of said flanges being bent to form a spring, and

spring means normally holding said slide pressed against the axle.

6. In combination with the journal-box wall formed with an opening to receive the axle, similar slides arranged in said opening and fitting over the adjacent edge of the journal-box wall, the meeting edges of said slides overlapping, and spring means normally holding said slides pressed against the axle.

7. In combination with the journal-box wall formed with an opening to receive the axle, similar slides arranged in said opening and fitting over the adjacent edge of the journal-box wall, the meeting edges of said slides overlapping, spring means normally holding said slides pressed against the axle, and spring means holding said slides tightly against the sides of the journal-box wall.

In testimony whereof I affix my signature in presence of two witnesses.

FREDERICK HACHMANN.

Witnesses:

H. S. JOHNSON,  
EMILY EASTMAN.