No. 773,935. PATENTED NOV. 1, 1904.

F. W. HALLOCK.

JOURNAL BEARING.

APPLICATION FILED MAY 16, 1904.

NO MODEL.

Fig. 1

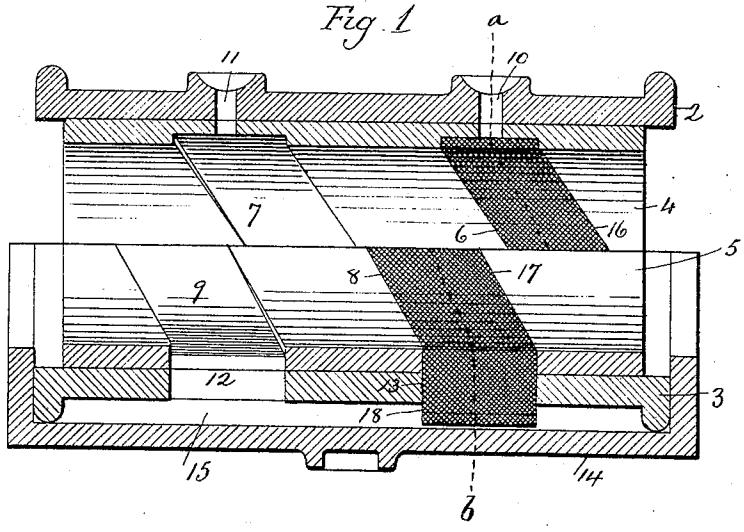


Fig. 2

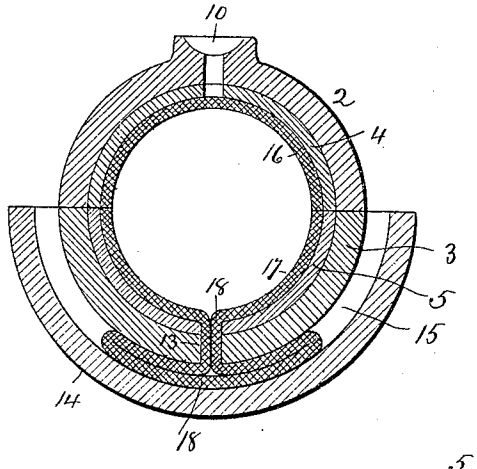
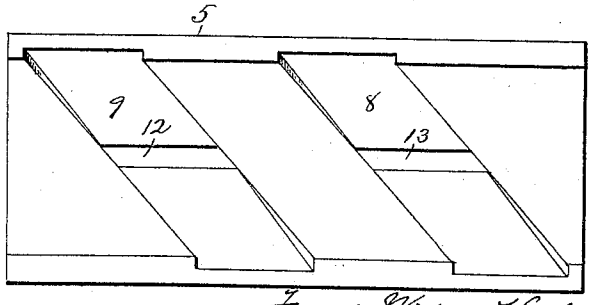


Fig. 3



Witnesses.
J. H. Shumway
Clara L. Weed.

Frank William Hallock
By Wm. Seymour & Earle Attys.

No. 773,935. Patented November 1, 1904.

UNITED STATES PATENT OFFICE.

FRANK WM. HALLOCK, OF DERBY, CONNECTICUT.

JOURNAL-BEARING.

SPECIFICATION forming part of Letters Patent No. 773,935, dated November 1, 1904.

Application filed May 16, 1904. Serial No. 208,082. (No model.)

To all whom it may concern:

Be it known that I, FRANK WILLIAM HALLOCK, of Derby, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Journal-Bearings; and I do hereby declare the following, when taken in connection with the accompanying drawings and the numerals of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a vertical sectional view of a journal-bearing constructed in accordance with my invention; Fig. 2, a sectional view on the line *a b* of Fig. 1; Fig. 3, a top or plan view of the lower box.

This invention relates to an improvement in journal-bearings, and particularly to that class which are provided with channels or grooves in their bearing-surfaces, which channels or grooves contain lubricating material, the object of this invention being a simple construction in which the bearing will be lubricated throughout substantially its entire length and one in which the lubricating material will be freely supplied; and the invention consists in certain details of construction and combination of parts, as will be hereinafter described, and recited in the claims.

In carrying out my invention I employ two semicircular boxes 2 3 of substantially usual form provided with the usual journal-bearing linings 4 and 5, and in the lining 4 I form two or more spiral grooves 6 7 and in the lining 5 corresponding grooves 8 and 9, the grooves in the respective linings being so arranged that when the boxes are placed together to form the journal-bearing the ends of the grooves 6 and 7 will not register with the grooves 8 and 9, but be, as it might be said, staggered, so that the edges of the linings 4 and 5 form stops at the ends of the grooves 6, 7, 8, and 9, as clearly shown in Fig. 1. In the box 2 are oil passages or holes 10 and 11, registering with the grooves 6 and 7, and in the bottom of the box 3 and lining 5 are slots 12 and 13, the purpose of which will hereinafter appear. This bearing is particularly adapted to be used with a hanger 14, so constructed and arranged that a chamber 15 will be formed between the box 3 and the inner face of the hanger 14. In the grooves 6 and 7 I place strips 16 of wicking, felt, or other suitable lubricating-conducting material, the strips corresponding in length to the length of the grooves, and these strips of wicking pass over the holes 10 and 11, through which lubricating material is admitted. In the grooves 8 and 9 strips 17 of wicking, felt, or other suitable lubricating-conducting material are placed, and these strips of wicking are of such a length that their central portions 18 may be passed through the slots 12 and 13 and be doubled on each side thereof in the chamber 15, which is intended to contain a supply of oil. While I prefer to form the strips 17 in a single piece, two pieces might be employed. By keeping the chamber 15 supplied with oil and feeding oil through the holes 10 and 11 to the wicks 16 the strips in both linings are kept lubricated, and these several strips substantially cover the entire length of the bearing, so that the journal is lubricated throughout its bearing-surface. Owing to the fact that the ends of the strips abut against the edges of the linings, they are not liable to become displaced and yet may be conveniently removed and replaced when required.

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

1. A journal-bearing comprising a two-part box and linings therein, there being spiral grooves in said linings, said grooves so disposed that the ends of the grooves in one part abut against the adjacent ungrooved edges of the other part, a lubricant-conducting material in said grooves.

2. A journal-bearing comprising an upper and a lower box and linings therefor, there being spiral grooves in said linings, said grooves so disposed that the ends of the grooves in one part abut against the adjacent ungrooved edges of the other part, and slots in the bottom of the grooves of the lower box, and lubricant-conducting material in said grooves said conducting material extending through said slots, substantially as described.

3. A journal-bearing comprising an upper and a lower box and linings therefor, there being spiral grooves in said linings, said grooves so disposed that the ends of the grooves in one part abut against the adjacent ungrooved edges of the other part, slots in the grooves of the lower box opening through the box combined with a hanger in which said lower box rests, there being a chamber between the inner face of the hanger and the outer face of said box, and strips of lubricant-conducting material in said grooves and extending through said slots, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

F. WM. HALLOCK.

Witnesses:
THOS. S. BIRDSEYE,
M. L. BUTLER.