No. 656,017. Patented Aug. 14, 1900.

G. FULTON.

JOURNAL BEARING.

(Application filed June 14, 1900.)

(No Model.)

Fig. 1

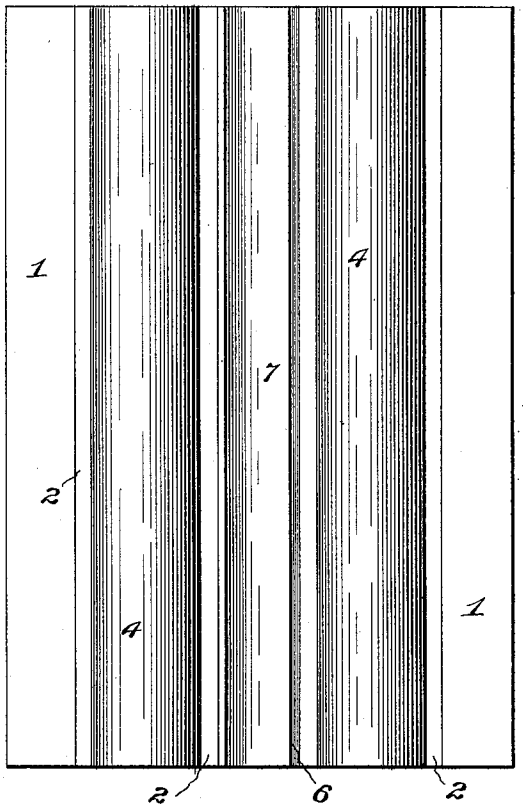
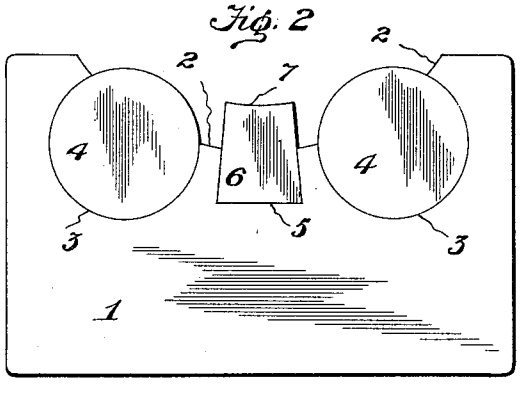


Fig. 2



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UNITED STATES PATENT OFFICE.

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JOURNAL-BEARING.

SPECIFICATION forming part of Letters Patent No. 656,017, dated August 14, 1900.

Application filed June 14, 1900. Serial No. 20,340. (No model.)

To all whom it may concern:

Be it known that I, GEORGE FULTON, a citizen of the United States, residing at Roodhouse, in the county of Greene and State of Illinois, have invented certain new and useful Improvements in Journal-Bearings; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has relation to improvements in antifriction noiseless journal-bearings.

The object of the invention is to provide a simple, durable, and inexpensive journal-bearing, which will be perfectly noiseless and which will reduce to a minimum the friction between the movable part and that with which it engages, and, further, to provide a bearing in which the parts may be readily removed and replaced when worn or injured.

With this and other minor objects in view the invention consists in certain novel features of construction, combination, and arrangement of parts, as will be hereinafter more fully described, and particularly pointed out in the appended claim.

In the accompanying drawings, Figure 1 is a plan view of a section of a bearing embodying my invention, and Fig. 2 is an end view thereof.

In the drawings the same reference characters indicate the same parts of the invention.

1 denotes the bearing-section proper, made of malleable iron or some other suitable material and provided with a curved face 2 for the reception of the journal. Opening through this face upon opposite sides of the center of the bearing are transverse parallel grooves 3, in which are journaled friction-rollers 4, made of brass or other preferred material, and removably mounted so as to be slipped endwise or longitudinally into and out of the grooves, so that a worn or injured roller may be readily removed and a new roller substituted therefor.

5 denotes a central transverse dovetailed recess or a recess the entrance to which is of less width than its base, which also opens through the said curved face 2 and extends between and in parallel relation with the grooves 3. In this recess is slipped endwise a stick 6 of Babbitt or like metal, having a curved surface 7 to engage the rotating part, and this curved surface lies in the arc of a circle that touches the outermost points of the friction-rollers. This stick 6 is also removably mounted, so that a new stick may be readily substituted for a worn or injured stick whenever necessary or desirable.

The invention may be applied to any desired form or type of bearing and provides a simple, cheap, and durable antifriction-bearing, which is perfectly noiseless and in which the parts most subject to wear may be quickly and conveniently removed and replaced by new parts.

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

In a journal-bearing, a bearing-section having a curved face to receive the journal, a central transverse dovetailed recess opening through said curved face, and grooves also opening through the curved face upon opposite sides of and parallel with said recess, in combination with friction-rollers journaled in the grooves and adapted to be slipped into or out of the same by an endwise movement, and a dovetailed stick of Babbitt or like metal removably mounted in the recess and having a curved face which is in the arc of a circle that touches the outermost points of the rollers, substantially as set forth.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

GEO. FULTON.

Witnesses:
J. W. CASEY,
W. P. LITTON.