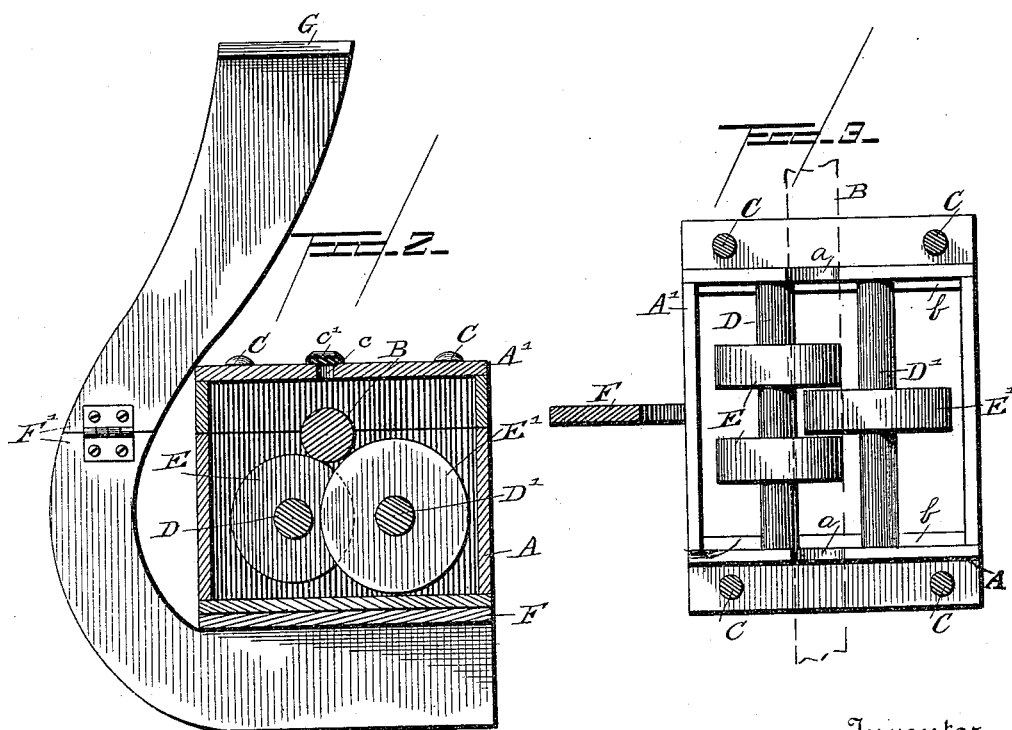
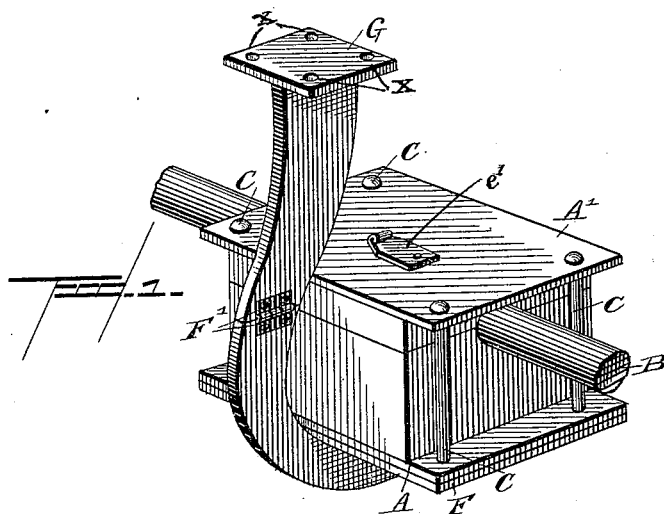


(No Model.)

W. W. HOLLAND.
JOURNAL BEARING.

No. 419,445.

Patented Jan. 14, 1890.



Witnesses

B. F. Schiele
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UNITED STATES PATENT OFFICE.

WILLIAM WILSON HOLLAND, OF FAIR PLAY, SOUTH CAROLINA.

JOURNAL-BEARING.

SPECIFICATION forming part of Letters Patent No. 419,445, dated January 14, 1890.

Application filed September 24, 1889. Serial No. 324,895. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM WILSON HOLLAND, a citizen of the United States, residing at Fair Play, in the county of Oconee and State of South Carolina, 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 relates to certain new and useful improvements in journal-bearings.

The object of the invention is to provide a bearing by the use of which the friction will be equalized and the wear made even; and to the accomplishment of that end the invention consists in friction-rollers so arranged with respect to each other that one of such rollers will be higher than the remaining rollers, the higher being arranged to receive the direct friction of the journal and to force such journal upon the remaining roller or rollers.

In the further description of the invention reference will be made to the accompanying drawings, in which—

Figure 1 is a view in perspective of my journal-bearing box mounted upon a suitable hanger; Fig. 2, a cross-section through the same, and Fig. 3 a top plan with parts removed and parts in section.

In the drawings the box containing the journal-bearing is shown as composed of body or box part A and top A', each provided with suitable semicircular openings *a*, arranged to register and form openings for the journal B. The top plate of part A' and the base plate of part A are extended out at each end, and such extensions provided with suitable openings, through which bolts C are passed to hold the parts together.

Within box A, I provide two spindles D D', each of which has bearings in end pieces *b*, with which the box A is provided, such spindles being arranged on opposite sides of the

journal-opening *a*. Upon spindle D are arranged two rollers E, while upon spindle D a single roller E' is mounted, the latter being so situated as to bring it between the rollers E, as clearly shown in Fig. 3. The roller E' is arranged to be higher than the rollers E, as clearly shown in Fig. 2, this arrangement being such that the journal will be guided by roller E' to the rollers E, and as the journal is to be revolved in the direction of roller E' the friction is thus equalized.

The top A' is provided at a suitable point with an orifice *c*, through which oil may be fed to bearings without the removal of the top, the orifice *c* being closed by a pivoted strip *c'*.

In the drawings I have also shown a bracket upon which the parts may be mounted, the same consisting of a base-plate F, of about equal dimensions to the base-plate of box A when extended, as described, and arm F', formed in two parts hinged together, the upper section of arm F' being provided with plate G, having orifices X, through which bolts for securing the hanger in place are passed.

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

1. In a journal-bearing, the combination, with a suitable box or casing, of friction-rollers mounted therein, the axes of such rollers being in the same plane and the rollers of different sizes, whereby the periphery of one roller will be in a different plane from that of the remaining roller, as set forth.

2. In a journal-bearing, the combination, with a journal-box, of a bracket consisting of a base-plate and a hinged supporting-arm, as set forth.

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

WILLIAM WILSON HOLLAND.

Witnesses:

D. V. WRIGHT,
M. S. JOHNSON.