No. 739,366. PATENTED SEPT. 22, 1903.

J. M. WANN.

JOURNAL BOX.

APPLICATION FILED SEPT. 16, 1902.

NO MODEL.

Fig. 1.

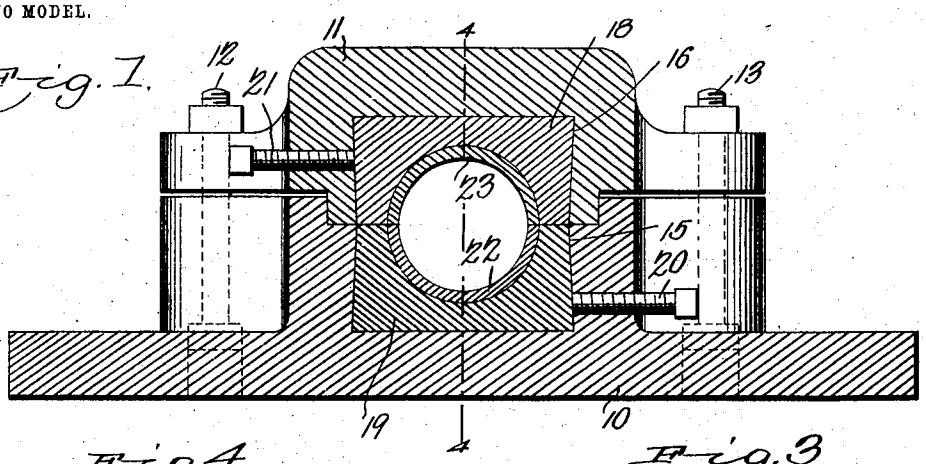


Fig. 4.

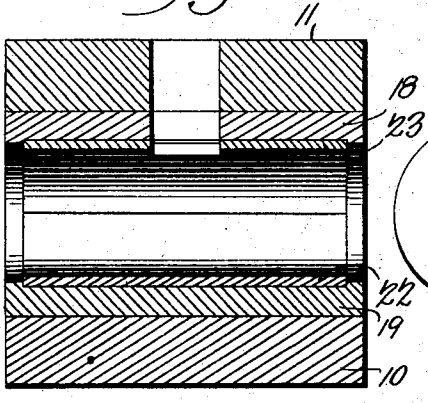


Fig. 3.

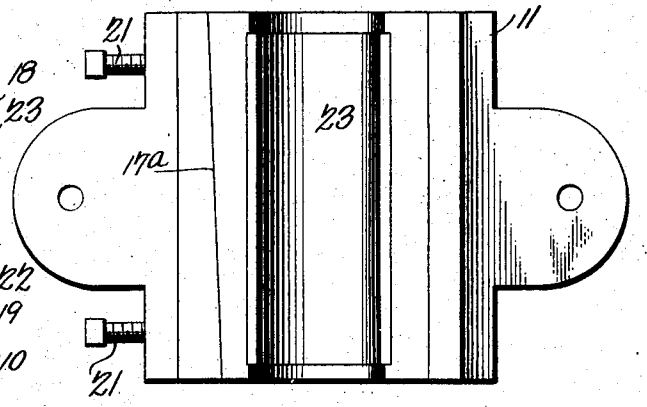
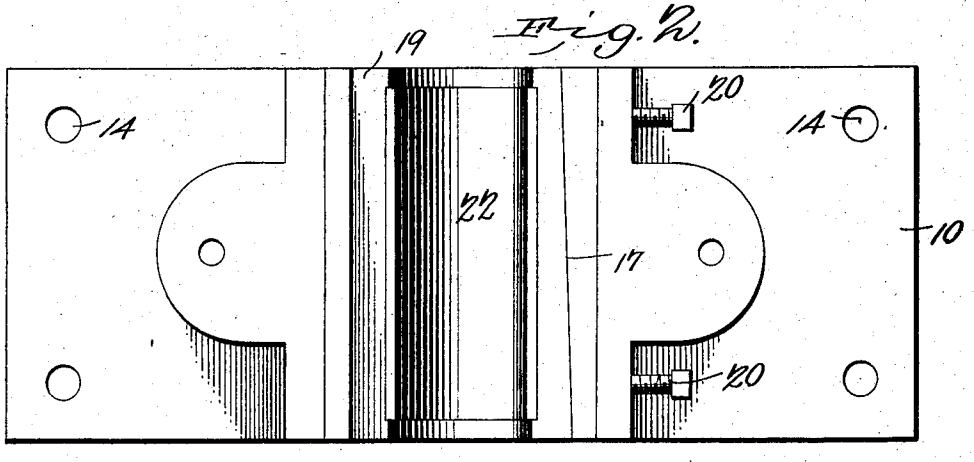


Fig. 2.



Witnesses
E. F. Stewart
Wm. Bagger

John M. Wann, Inventor.
by C. A. Snow & Co.
Attorneys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 739,366. Patented September 22, 1903.

UNITED STATES PATENT OFFICE.

JOHN MADISON WANN, OF POCAHONTAS, ARKANSAS, ASSIGNOR OF ONE-HALF TO SIDNEY L. ARMSTRONG, OF POCAHONTAS, ARKANSAS.

JOURNAL-BOX.

SPECIFICATION forming part of Letters Patent No. 739,366, dated September 22, 1903.

Application filed September 16, 1902. Serial No. 123,651. (No model.)

To all whom it may concern:

Be it known that I, JOHN MADISON WANN, a citizen of the United States, residing at Pocahontas, in the county of Randolph and State of Arkansas, have invented a new and useful Journal-Box, of which the following is a specification.

This invention relates to journal-boxes, and has for its object the production of a device whereby the half-bearings may be quickly and conveniently renewed or rebabbitted without removing the cap or other parts of the box; and the invention consists in forming the base-section and the cap-section of the journal-box with longitudinal registering recesses and providing half-boxes fitting the opposite sides of the journal and detachably supported in the recesses, whereby when the half-boxes are to be renewed or repaired it is only necessary to loosen the cap and remove the half-boxes.

Other novel features of the invention will appear in the annexed description and be specified in the claims following.

In the drawings illustrative of the invention, Figure 1 is a front view of my improved journal-box. Fig. 2 is a top plan view of the same with the cap and the upper half-box detached. Fig. 3 is an inverted view of the cap and upper half-box detached from the lower part of the journal-box. Fig. 4 is a vertical sectional view taken on the line 4 4 in Fig. 1.

The improved device consists in the lower box or journal-bearing section 10 and the upper or cap section 11, the cap-section secured to the lower or base section by the usual bolts 12 13. The base-section is adapted to be supported in any suitable manner, as by bolts through bolt-holes 14 or by other means in the ordinary manner. The base-section and the cap-section are substantially of the usual form, with such slight modifications as may be found necessary to apply the improvements embodying the present invention.

The device is adapted to be employed in connection with any of the different forms of journal-bearings, and it is not desired, therefore, to limit the invention to any specific form of bearing, and the right is therefore reserved of applying the invention to any form of journal-bearing with which it may be employed.

The sections 10 11 are provided, respectively, with longitudinal recesses 15 16, registering when the parts are united, as indicated in Fig. 1.

The recesses 15 16 are dovetailed, as will be clearly seen in Fig. 1 of the drawings, to receive the correspondingly-dovetailed half-boxes 18 and 19. In addition to being dovetailed the recesses and the correspondingly-shaped half-boxes are longitudinally tapered at opposite edges, the longitudinal taper of the recess 15 and half-box 19 being shown in Fig. 2 as being on the right-hand side, while the longitudinal taper of the upper recess 16 and half-box 18 is shown as being on the left-hand side, (see Fig. 3,) said tapered portions being designated, respectively, 17 and 17^a. By this construction the half-boxes may not only be closely and exactly fitted in their respective recesses, but owing to the taper or wedge shape the half-boxes when inserted in the recesses will always come to precisely the same point, thus insuring exactness in the fitting. Set-screws 20 21 will be tapped through the sections 10 11, respectively, and adapted to engage the tapering sides of the half-boxes and hold them in place, as will be obvious.

The half-boxes 18 19 will be provided with the usual Babbitt-metal fillings 22 23, applied in the usual manner.

When the Babbitt-metal fillings become worn, they can be readily renewed without detaching the whole box by merely loosening the cap-section 11 and set-screws 20 21, removing the half-boxes, rebabbitting them, and returning them in the same manner. This greatly simplifies the work of renewing the bearings, effecting a great saving of labor and time and avoiding the necessity of disconnecting large portions of the machinery.

With this improved device the journal-bearings may be very quickly and readily renewed by persons not previously skilled, thereby effecting a material saving in expense and time and avoiding long delays.

The item of time is often a very important one, especially in large manufactories or other establishments, as the stoppage of machinery

for even a very short time entails heavy expense; hence the importance of any device which reduces the time required to renew worn-out boxes or journal-bearings.

If required, duplicate sets of the half-boxes might be provided ready to be inserted instantly upon the removal of the worn-out ones, thus effecting a still greater saving of time and labor, as the worn-out boxes could then be removed at leisure and become the duplicate boxes.

The device may be applied to any size of journal-bearing and may be employed with equal facility in the largest or smallest bearings.

Having thus described the invention, what is claimed is—

1. In a journal-bearing, the combination with a base and a cap section, each having a dovetailed recess and said recesses being longitudinally tapered relatively on opposite sides, of half-boxes correspondingly dovetailed and tapered.

2. In a journal-bearing, the combination with a base and a cap section detachably connected and provided with oppositely-disposed dovetailed recesses, each of said recesses having a tapered side, in combination with correspondingly dovetailed and tapered half-boxes, and set-screws extending respectively through the base and the cap and engaging the opposite tapered sides of the half-boxes.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOHN MADISON WANN.

Witnesses:
A. J. WITT,
F. C. KLINE.