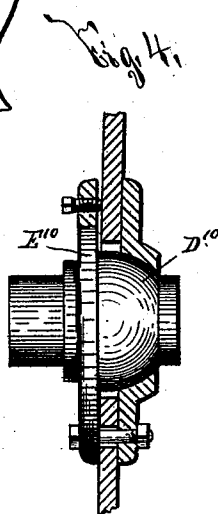
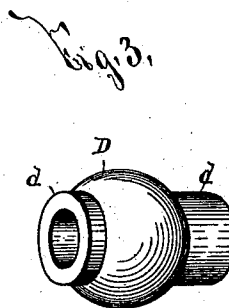
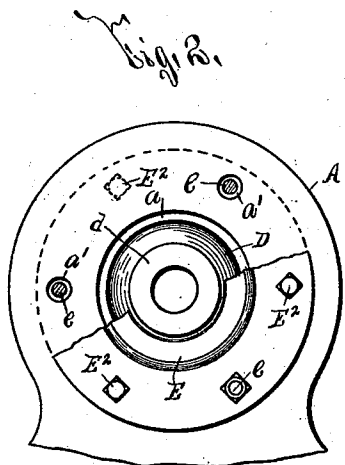
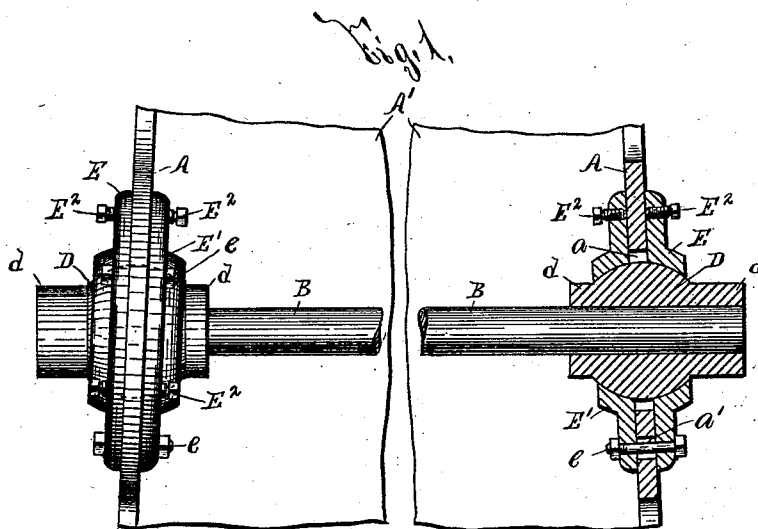


(No Model.)

H. M. DARLING.
JOURNAL BOX.

No. 558,262.

Patented Apr. 14, 1896.



WITNESSES:

W. C. Chace,
A. H. Thibault

INVENTOR

Henry M. Darling,

BY

W. C. Parsons,
ATTORNEYS.

UNITED STATES PATENT OFFICE.

HENRY M. DARLING, OF SENECA FALLS, NEW YORK, ASSIGNOR TO THE
SENECA FALLS MANUFACTURING COMPANY, OF SAME PLACE.

JOURNAL-BOX.

SPECIFICATION forming part of Letters Patent No. 558,262, dated April 14, 1896.

Application filed February 1, 1896. Serial No. 577,694. (No model.)

To all whom it may concern:

Be it known that I, HENRY M. DARLING, of Seneca Falls, in the county of Seneca, in the State of New York, have invented new and useful Improvements in Journal-Boxes, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

My invention relates to improvements in journal-boxes for shafts, and has for its object the production of a device which is economical in manufacture and is capable of a maximum degree of adjustment; and to this end it consists, essentially, in the general construction and arrangement of the parts.

In describing this invention reference is had to the accompanying drawings, forming a part of this specification, in which like letters indicate corresponding parts in all the views.

Figure 1 is a top plan view, partly in section, of my invention, a shaft being shown as mounted in opposite journal-boxes. Fig. 2 is an outer face view of one of the detached journal-boxes and its support, the shaft being withdrawn and a portion of the outer clamping-piece being broken away. Fig. 3 is an isometric view of one of the detached sleeves for supporting the shaft; and Fig. 4 is a vertical section of a modified form of my journal-box, one clamping-piece being shown as integral with the sleeve.

It is well known that when shafts are mounted in journal-boxes carried by separated supports, especially when said supports are formed of cast material, considerable expense and care are required to properly align the journal-boxes so that the shafts run true. My invention is designed for use in connection with such separated supports liable to be more or less distorted and is of such construction that the necessary adjustment may be secured to permit a shaft to run true even though the supports for its journal-boxes are more or less out of alinement.

A A represent suitable supports, and B a shaft mounted in journal-boxes, which are secured to the supports and preferably consist of partially-globular bearing-sleeves D and clamping-plates E E'. The supports A A may be arranged upon any suitable frame A' and

are here shown as inclined toward each other, although it is obvious that they may be otherwise inclined or arranged parallel. Each support is formed with an aperture *a* and openings *a'* encircling said aperture. The partially-globular sleeves D receive the shaft B, are usually provided with extensions *d*, and are arranged in the apertures *a*, which are sufficiently large to permit said sleeves to freely adjust themselves therein. The clamping-pieces E E', which support the sleeves D, are arranged on opposite sides of the supports A A and are adjustably movable vertically and laterally on the adjacent faces of the supports for permitting the necessary adjustment of said sleeves.

The clamping-pieces E E' are held in their adjusted position by suitable means (here illustrated as bolts *e*) for drawing said clamping-pieces together and engaging their adjacent faces with the opposite sides of the supports A A. The bolts *e* are passed through the openings *a'* and are of less diameter than said openings for permitting the adjustable movement of the clamping-pieces E E'. I also preferably effect the securing of the clamping-pieces in their adjusted position by set-screws E², which are supported by said clamping-pieces and are engaged with the opposite faces of the supports A A.

At Fig. 4 I have shown a slightly-modified construction of my invention, in which one of the clamping-pieces E¹⁰ is formed integral with the partially-globular sleeve D¹⁰, but this is no material departure from my invention.

The operation of my invention will now be readily perceived upon reference to the foregoing description and the accompanying drawings, and it will be particularly noted that journal-boxes of this construction are self-aligning even to a greater extent than is ordinarily required and are particularly applicable for use in supporting shafts upon machines of various character—as, for instance, lathes, planers, drill-presses, &c.

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

1. The combination of a support having an aperture, a partially-globular bearing-sleeve

arranged in the aperture, a clamping-piece for supporting one end of the sleeve adjustably movable on the adjacent face of the support, a second clamping-piece for supporting the opposite end of the sleeve adjustably movable on the opposite face of the support and provided with an aperture for receiving said sleeve, and means for adjusting the clamping-pieces together, substantially as and for the purpose described.

2. The combination of a support having an aperture, a partially-globular bearing-sleeve arranged in the aperture, a clamping-piece for supporting one end of the sleeve adjustably movable on the adjacent face of the support, a second clamping-piece for supporting the opposite end of the sleeve adjustably movable on the opposite face of the support and provided with an aperture for receiving said sleeve, bolts for adjusting the clamping-pieces together, and set-screws for holding the clamping-pieces in their adjusted position, substantially as and for the purpose specified.

3. The combination of a support having an aperture and openings surrounding the aperture, a partially-globular bearing-sleeve arranged in the aperture, a clamping-piece for supporting one end of the sleeve adjustably movable on the adjacent face of the support, a second clamping-piece for supporting the opposite end of the sleeve adjustably movable on the opposite face of the support and

provided with an aperture for receiving said sleeve, and bolts passed through said openings and formed of less diameter than the same, said bolts being engaged with the clamping-pieces for adjusting the same, substantially as and for the purpose set forth.

4. The combination of a support having an aperture and openings surrounding the aperture, a partially-globular bearing-sleeve arranged in the aperture, a clamping-piece for supporting one end of the sleeve adjustably movable on the adjacent face of the support, a second clamping-piece for supporting the opposite end of the sleeve adjustably movable on the opposite face of the support, and provided with an aperture for receiving said sleeve, bolts passed through said openings and formed of less diameter than the same, said bolts being engaged with the clamping-pieces for adjusting the same, and set-screws supported by the clamping-pieces and engaged with the support for holding the clamping-pieces in their adjusted position, substantially as and for the purpose described.

In testimony whereof I have hereunto signed my name, in the presence of two attesting witnesses, at Seneca Falls, in the county of Seneca, in the State of New York, this 20th day of January, 1896.

HENRY M. DARLING.

Witnesses:

CHARLES C. JOHNSON,
ADELBERT S. DAVIS.