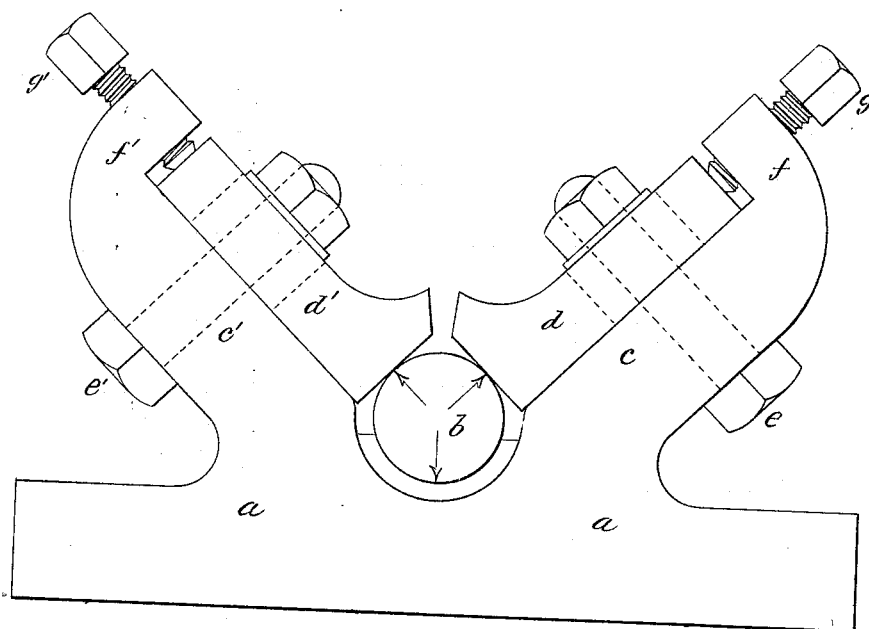


S. C. ELLIS.
Journal-Box.

No. 219,851.

Patented Sept. 23, 1879.



ATTEST

Chas. M. Higgins
John C. Gawn

INVENTOR

Seth C. Ellis
by S. H. Bates
his atty

UNITED STATES PATENT OFFICE.

SETH C. ELLIS, OF JERSEY CITY, NEW JERSEY.

IMPROVEMENT IN JOURNAL-BOXES.

Specification forming part of Letters Patent No. **219,851**, dated September 23, 1879; application filed July 18, 1879.

To all whom it may concern:

Be it known that I, SETH C. ELLIS, of Jersey City, Hudson county, State of New Jersey, have invented certain new and useful Improvements in Journal-Boxes, of which the following is a specification.

My present invention is an improvement on that class of journal-boxes on which a patent was granted me May 9, 1871, in which the fixed or lower part of the box is formed with two diverging inclines, while the cap is formed in two independent halves or sections adjustable on the said inclines radially toward the journal.

My present invention embodies two novel features, by which the inclined sliding sections of the cap are adjusted in a better and more convenient manner, and a more uniform and equalized bearing is obtained on the journal, as hereinafter fully set forth.

The drawing presents a side elevation of my improved journal-box.

a indicates the lower fixed half or base of the box, which is formed with a central semi-circular groove or bearing to receive the journal *b*, on each side of which is an inclined wing, *c c'*, whose faces are at right angles to each other and converging toward the journal. The sections *d d'* of the cap rest upon the inclines and bear upon the journal at their lower ends, being adjusted thereto as the wear takes place, while the caps are held and guided by the studs *e e'*, which extend through the wings and through slots in the caps, as usual, the caps being clamped in position by the nuts of the studs.

In my former device the tops of the wings were made level, and movable blocks were adjustable horizontally thereon, with a wedging action against the ends of the caps, to force the latter against the journal; but this construction, which is found to be somewhat objectionable, I now dispense with.

One feature of my present invention consists in forming the inclined wings to terminate with the lateral lugs *f f'*, projecting over the ends of the cap-sections, and in arranging adjusting-screws *g g'* to pass through the said lugs in line with the caps, and to bear upon

the ends of the latter, as shown. By this means the caps can be adjusted against the journal with much more convenience and nicety. Thus, to make the desired adjustment, the nuts of the studs *e e'* are loosened, and the caps moved close to the journal, after which the nuts are again tightened to hold the caps in place, as usual. This tightening of the nuts usually displaces the caps somewhat; but by turning the adjusting-screws *g g'* slightly the caps are forced snug and true against the journal with any degree of tightness required, and are there held till the next adjustment is required by the wear of the parts.

It will be readily seen that as the caps are held centrally by the studs *e e'*, and as the screws *g g'* bear centrally on the ends thereof, hence, as the caps are forced to the journal by the turning of the screws *g g'*, a swiveling movement is allowed to the caps, which enables their bearing-faces to adjust themselves to the precise line of the journal, and to thus obtain a uniformly-disposed bearing thereon, thereby enabling the journal to be held more truly, to wear more uniformly, while vibration thereof is effectually obviated.

Another feature of my invention consists in forming the bearing-faces of the caps flat and at right angles to their base-line, as shown in the drawing, instead of curving the same to correspond with the journal, as heretofore.

This construction admits of constant adjustments to allow for wear, and yet insures that the caps shall always bear upon the journal in uniform lines on its upper side, and, with the bearing at the base of the box, insures that the journal shall be held at three equidistant points, whereas when the bearing ends of the caps are curved they fail to bear at the proper point after being once adjusted for wear, as their line of contact with the journal then comes too low, leaving the top of the journal imperfectly supported.

What I claim as my invention is—

1. A journal-box formed with the inclined sectional caps *d d'* and inclined sides *c c'*, terminated by the lateral lugs *f f'* provided

with screws $g g'$, extending through the same in line with the sectional caps, and bearing upon the ends thereof, substantially as and for the purpose set forth.

2. A journal-box constructed with the inclined adjustable section-caps $d d'$, formed with flat bearing ends, in combination with the base a , formed with inclined supporting

sides $c c'$ and a central semicircular journal-cavity, substantially as herein shown and described.

SETH C. ELLIS.

Witnesses:

CHAS. M. HIGGINS,
JOHN E. GAVIN.