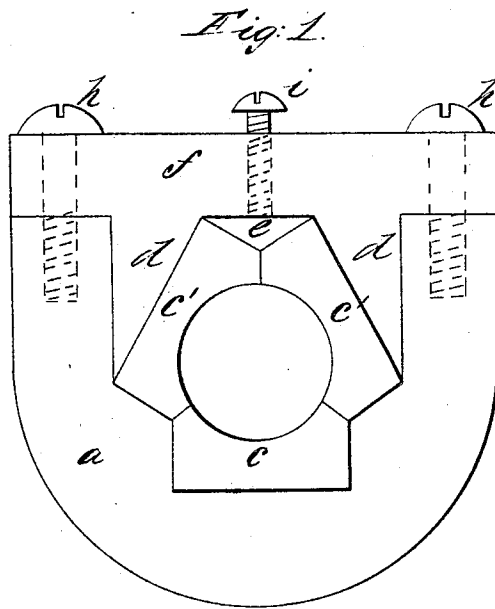


H. M. PRESTON.  
JOURNAL BOX.

No. 81,002.

Patented Aug. 11, 1868.



*Witnesses:*

*E. W. Bliss*

*Jersey W. Bliss*

*Inventor:*

*H. M. Preston*

# United States Patent Office.

H. M. PRESTON, OF UNIONVILLE, CONNECTICUT.

Letters Patent No. 81,002, dated August 11, 1868.

## IMPROVEMENT IN JOURNAL-BOXES.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, H. M. PRESTON, of Unionville, county of Hartford, and State of Connecticut, have invented certain new and useful Improvements in the Mode or Construction of Journal-Boxes; and to enable others skilled in the art to make and use the same therefrom, I will proceed to describe the construction and operation thereof.

The nature of this invention consists in making the box in three parts, so that when the adjusting or tightening-pressure is exerted, each will move or press in three directions towards the centre.

It further consists in providing wedges, of a right-angled-triangle shape, which are or may be made separate or attached to a pressure-cap, and tightened by means of tightening-screws, passing through the cap or band directly on to or against the edge of said wedges when they are made separate from the fastening-cap.

In the accompanying drawings—

Figure 1 is an end or side view of a head in which this improvement is arranged.

*a* is the head of a connecting-rod or lathe, in which the three-part box *c' c' c* is fitted.

*d d* are right-angle-triangle-shaped wedges, which are fitted to work closely and freely in the head *a*, and against the sides of the boxes *c' c'*.

*e* is a  $\nabla$ -shaped pad, fitted into an angle (obtuse angle) at the union of the two parts of the box next to the strap or cap *f*.

The part of the box *c* is fitted firmly or closely at the bottom of the opening in the head *a*.

These boxes are adjusted and secured firmly in their proper places against the journal by means of set-screws, *h h*, or *i*, or by screws which may be fitted into the cap directly against the end or edge of the wedges *d*.

Thus it will be seen that as the bearings wear, by simply turning the tightening-screws, or by compressing the wedges *d d*, the boxes *c' c' c* will close against the pin or journal from three points of a circle towards a common centre, thus producing or securing a perfect bearing on all sides against the journal, and allowing the boxes to be easily and quickly removed, when desirable, which in the ordinary way is very irksome and inconvenient.

I believe I have thus shown the nature, construction, and advantage of this invention, so as to enable others skilled in the art to make and use the same therefrom.

What I claim, therefore, and desire to secure by Letters Patent, is—

The combination of the boxes *c' c' c*, wedges *d d*, or their mechanical equivalent, head *a*, and tightening-screws, substantially as and for the purpose described.

H. M. PRESTON. [L. s.]

Witnesses:

E. W. BLISS,

JEREMY W. BLISS.