J. Schieder,

Journal Box.

No. 111,479. Patented Jan. 31. 1871.

Fig. 1.

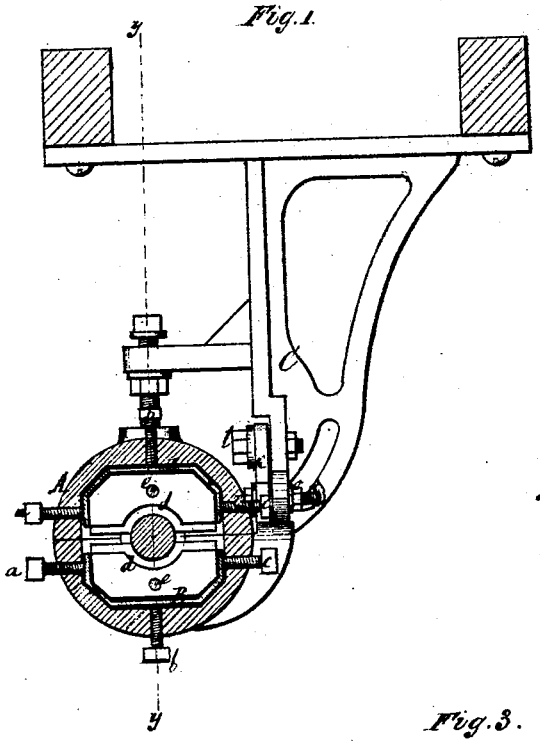


Fig. 2.

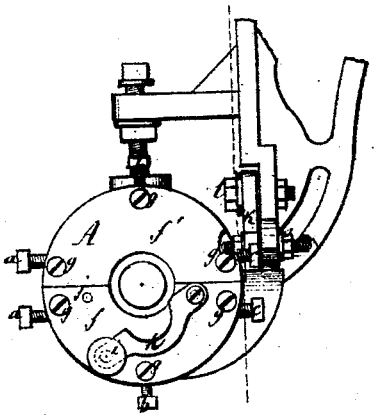


Fig. 3.

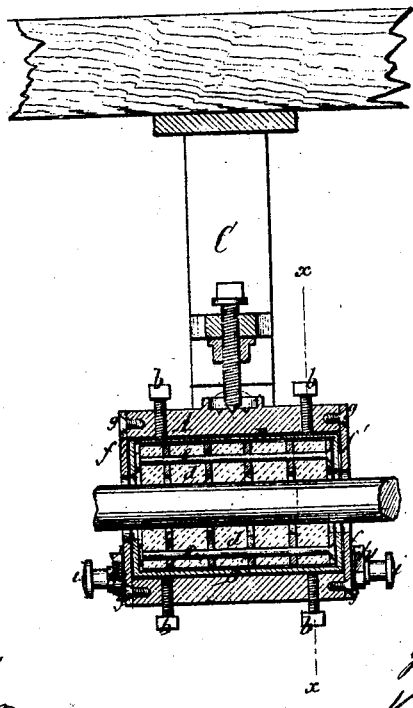
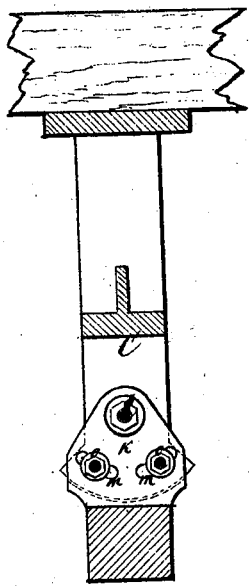


Fig. 4.



Witnesses:
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JOHN SCHIEDER, OF NEW YORK, N. Y.

Letters Patent No. 111,479, dated January 31, 1871.

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, JOHN SCHIEDER, of the city, county, and State of New York, have invented a new and useful Improvement in Journal-Boxes; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which drawing—

Figure 1 represents a transverse section of this invention, the line *x x*, fig. 3, indicating the plane of section.

Figure 2 is an end view of the same.

Figure 3 is a longitudinal central section of the same, the plane of section being indicated by the line *y y*, fig. 1.

Figure 4 is a sectional front view of the box when applied to a hanger.

Similar letters indicate corresponding parts.

This invention consists in a journal-box which contains two adjustable shells filled with bearing-surfaces composed of alternate layers of India-rubber cloth and of sheet metal, sheet-copper being used by preference, in such a manner that a bearing-surface is obtained which is self-lubricating, which can be readily renewed, and which can be easily adjusted by means of set-screws acting on the shells.

The ends or heads of the box are removable, so that easy access can be had to the shells, and to each of said heads is secured a latch, which serves to support the shaft in case the lower shell should be removed.

The journal-box, when used in connection with a hanger, is secured thereto by means of a swivel-arm, which swings on a pivot secured in the hanger, and which is provided with two segmental slots to receive screws with right-and-left-hand screw-threads, in such a manner that the journal-box can accommodate itself to the shaft passing through it, and that the nuts on the screws with the right-and-left-hand threads are not liable to work loose spontaneously.

In the drawing—

A designates a journal-box, each half of which is provided with a shell, B.

These shells are exposed to the action of set-screws *a b c*, bearing thereon from three sides, so that the same can be readily adjusted to the correct position after the box is secured in its place.

Said shells are fitted with bearing surfaces *d*, composed of alternate layers of India-rubber cloth and sheet metal, sheet-copper being used by preference, and these layers are united by rivets *e* passing through them, as shown in fig. 3.

By these means bearing surfaces are obtained which are self-lubricating, which are very durable, and which work with comparatively little friction.

If either of said bearing surfaces should wear off, it can be readily brought in the required position by means of the set-screws *a b c*, and if the same should wear out it can be easily removed and replaced by a new one.

In order to enable the workmen to effect this purpose, the heads *f f'* of the box A are made removable, being secured in position by screws *g*.

To the outer surfaces of the lower heads *f* are secured the latches *h*, which, when the journal-box is in operation, are turned down to the position shown in fig. 2; but if the bearing surfaces in the lower shells have to be removed, one of the lower heads is unscrewed and taken off, and the latch on the opposite head is turned up and secured in position, so as to support the shaft while the shell is taken out.

For the purpose of securing the latches in this last-named position, I have provided them with screws *i*, which can be screwed into holes *j*, (see fig. 2.)

If my box is to be used on a hanger, C, I provide the same with an arm, *k*, which is attached to the hanger by means of a screw, *l*, so that the box can accommodate itself to the shaft passing through it.

In the arm *k* are two segmental slots, *m*, (see fig. 4,) and through these slots pass screws *n*, with nuts *o*, and right-hand threads on one and left-hand threads on the opposite ends.

If the box should swing on its pivot *l*, therefore, and if either of the screws *n* should turn, having a tendency to unscrew the nut on one of its ends, the nut on the opposite end will screw up, and the box would become tight, or at least prevented from getting loose spontaneously.

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

1. A journal-box, containing two shells, provided with bearing-surfaces made of alternate layers of India-rubber cloth and sheet metal, (sheet-copper being used by preference,) said shells being adjusted by means of set-screws so that the bearing-surfaces can be brought in the required position, as herein shown and described.

2. The supporting-latches at the heads of the journal-box, provided with removable shells, substantially as set forth.

3. The swivel-arm, secured to a hanger by screws with right-and-left-hand threads, substantially as herein shown and described.

This specification signed by me this 10th day of November, 1870.

JOHN SCHIEDER.

Witnesses:

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