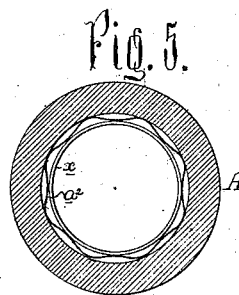
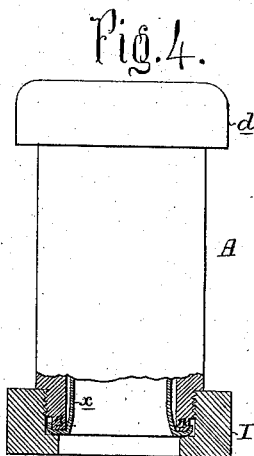
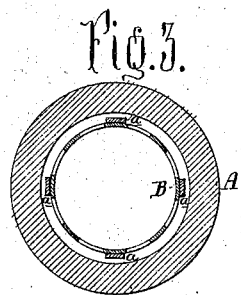
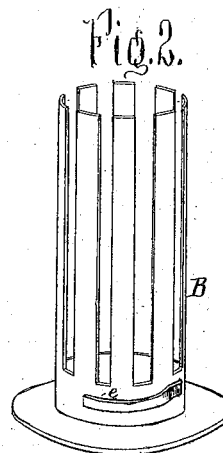
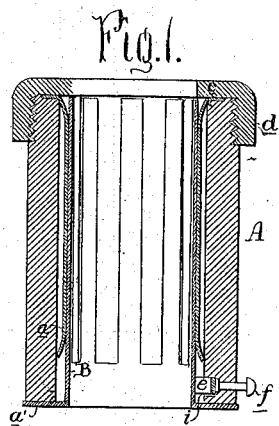


*E. D. Murfey,*

*Journal.*

*No. 108,081.*

*Patented Oct. 4. 1870.*



Witnesses.  
*E. D. Murfey*  
*Albert B. Norris*

*E. D. Murfey*  
*By her attorneys*  
*Harrison & Son*

# United States Patent Office.

ELIZA DEXTER MURFEY, OF NEW YORK, N. Y., ASSIGNOR TO MANHATTAN  
PACKING MANUFACTURING COMPANY.

Letters Patent No. 108,081, dated October 4, 1870.

## IMPROVEMENT IN JOURNAL-BOXES.

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

I, ELIZA DEXTER MURFEY, of New York, county of New York, State of New York, have invented Improvements in Journal-Boxes, of which the following is a specification.

### *Nature and Object of the Invention.*

My invention consists of a journal-box containing a bearing and an elastic medium, arranged between the box and the bearing, so as to permit a slight lateral play of the journal.

My invention further consists of a carrier to which the bearing is attached, and which is fitted to the box, so as to be detachable therefrom, and of the combination, with the box, of a cap, whereby a flanged detachable bearing is secured within the box.

### *Description of the Accompanying Drawing.*

Figure 1 is a sectional elevation of my improved journal-box.

Figure 2, a perspective view of a detachable carrier for holding the bearing.

Figure 3, a section on the line 1-2, fig. 2.

Figures 4 and 5, views showing modifications.

### *General Description.*

The box A consists of a hollow metal cylinder, in the upper edge of which are recesses for the reception of the bent ends of curved springs *a*, which extend downward within and nearly to the bottom of the box, bearing against the latter only at their ends.

Against the upper bent ends of the springs bears the flange *c* of a cap, *d*, which screws onto the upper end of the box, and confines the springs in their places.

A detachable cylindrical frame, B, consisting (in the present instance) of a slotted tube, with a flange, *a'*, at the lower end, fits within the box, and is of such a diameter that, when introduced from below, it will tend to compress or flatten the springs *a*, and will be retained by the said springs in the central position shown in figs. 1 and 2.

Upon the frame B is a spring catch, *e*, adapted to a recess, *i*, in the box A, and which retains the frame in its position vertically, and in the box slides a pin, *f*, which, when pressed inward, will force the catch out of the recess so that the box may be withdrawn.

The packing, which may be of the prepared material for which Letters Patent of the United States were granted to me on the 12th day of July, 1870, is folded to a tubular form and introduced into the

frame or carrier B, and the latter is secured in the box A, as shown in fig. 1.

The springs *a* will prevent any excessive vibration of the shaft, yet when any strain is brought upon the latter tending to defect it, will yield sufficiently to prevent the straining or bending of the shaft and the unequal wear of the bearing.

The carrier is especially serviceable when it is necessary to replace the bearing without disturbing the shaft or the box. This is accomplished by sliding the carrier down upon the spindle, removing the defective bearing, wrapping another round the spindle, passing the holder up over it, and then sliding both up into the box.

Should it be necessary to remove one or more of the springs *a*, the cap *d* may be unscrewed and the spring or springs withdrawn without disturbing the box or bearing.

Corrugated elastic rings, *a'*, fig. 5, or a tube of rubber, or other elastic material, may be substituted for the springs *a*, and in some instances the holder B may be dispensed with, and the bearing *x* may rest directly against the springs or elastic material, as shown in fig. 4.

In this case the bearing *x* should be expanded at the lower end to form a flange, and the box should be provided with a detachable ring or cap, I, for clamping the said flange, thereby preventing the bearing from being displaced or turning in the box.

It will be apparent that my invention may be as efficiently employed with sliding shafts as with those which revolve.

### *Claims.*

1. The combination of the box A, its bearing *x*, and an elastic medium arranged between the bearing and the box, substantially as described.
2. The combination, with the box A, of a detachable carrier B, for holding the bearing, as specified.
3. The ring or cap *c*, securing the flanged bearing to the box, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

E. D. MURFEY.

Witnesses:

ALBERT H. NORRIS,  
CHARLES E. FOSTER.