

P. SWEENEY.
JOURNAL-BOX.

No. 183,080.

Patented Oct. 10, 1876

Fig. 1.

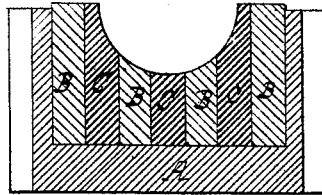
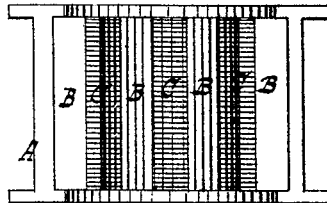


Fig. 2.



Witnesses.
Otto Stiefeland.
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Inventor.
Peter Sweeney
per
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UNITED STATES PATENT OFFICE

PETER SWEENEY, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF AND
WILLIAM BOURGOYNE BISHOP, OF SAME PLACE.

IMPROVEMENT IN JOURNAL-BOXES.

Specification forming part of Letters Patent No. **183,080**, dated October 10, 1876; application filed
March 31, 1876.

To all whom it may concern:

Be it known that I, PETER SWEENEY, of the city, county, and State of New York, have invented a new and useful Improvement in Journal-Boxes, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a longitudinal vertical section. Fig. 2 is a plan or top view.

Similar letters indicate corresponding parts.

This invention consists in a journal-box the bearing-surface of which is composed of supporting-layers of rawhide alternating with lubricating-layers made chiefly from boiled oil, beeswax, graphite, and mercury.

In the drawing, the letter A designates the shell of my journal-box, into which are placed the supporting-layers B and the lubricating-layers C. Said supporting-layers are made of rawhide, which may be prepared by soaking it in water and in a solution of chloride of zinc or other equivalent material, and they alternate with the lubricating-layers C, as shown in the drawing. These lubricating-layers are made of a compound containing chiefly graphite, mercury, beeswax, and boiled linseed-oil, to which may also be added paper-pulp, said compound being molded and pressed into layers of the required form or shape. If desired, the supporting-layers B may be provided with

holes or cells for the reception of some lubricating compound, and the layers B C may either be arranged parallel to the journal, as shown, or transversely to the same.

By combining the supporting-layers B and the lubricating-layers C in the manner described, I have produced a journal-box which requires no lubrication, and in which a shaft can be run for days in succession at a great speed without heating. By the friction of the shaft a portion of the lubricating-layers is carried over the edges of the supporting-layers and pressed into the pores of the rawhide, so that the entire bearing is practically formed by the lubricating compound, and the heating of the journal is effectually prevented.

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

A self-lubricating journal-box, composed of a shell, A, supporting-layers B, of rawhide, and lubricating-layers C, composed of boiled oil, beeswax, mercury, and graphite, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 28th day of March, 1876.

PETER SWEENEY. [L. s.]

Witnesses:

W. HAUFF,
E. F. KASTENHUBER.