

P. S. DEVLAN.  
JOURNAL AND AXLE BOX.

No. 66,471.

Patented July 9, 1867.

Fig. 2.

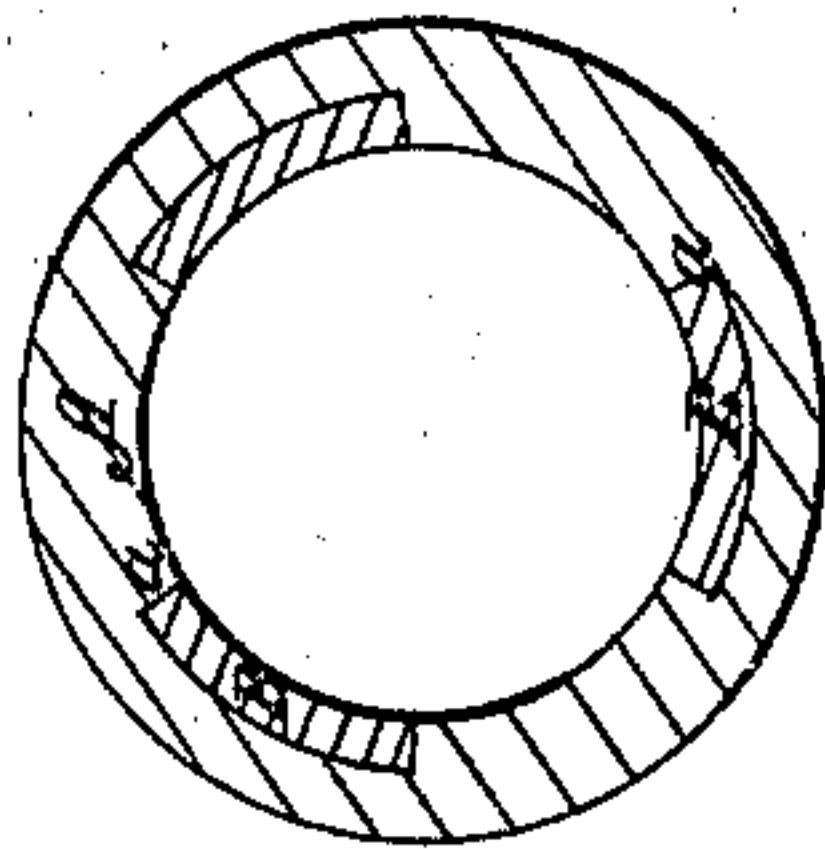
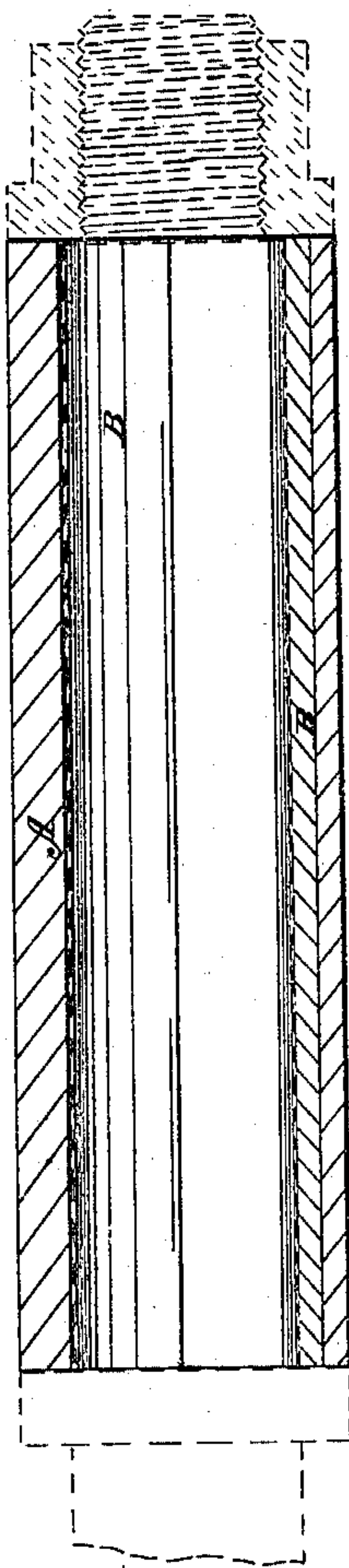


Fig. 1.



Witnesses,

J. M. Coombs  
G. W. Reed

Inventor,  
P. S. Devlan per

*Amos Cornish*

United States Patent Office.

P. S. DEVLAN, OF JERSEY CITY, NEW JERSEY.

*Letters Patent No. 66,471, dated July 9, 1867.*

IMPROVEMENT IN JOURNAL AND AXLE-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, P. S. DEVLAN, of Jersey City, in the county of Hudson, and State of New Jersey, have invented a certain new and useful Improvement in Journal and Axle-Boxes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, which forms part of this specification, and in which—

Figure 1 represents a longitudinal, and

Figure 2 a transverse section of an axle-box, having my improvement applied to it.

Similar letters of reference indicate corresponding parts.

My invention consists in the combination with or application to axle or journal-boxes of wood in the form of strips inserted within the same in an intermediate or intervening manner relatively to the entire bearing, composed, say, of metal, or of material essentially different in character from said strips, which may either be saturated with petroleum or other lubricating oil or matter previous to insertion, or serve by their absorbent character to convey lubricating matter from a suitable supply to the axle or shaft during its rotation to and throughout the bearing, and preferably extending to the ends of the same.

These wooden strips may be variously arranged, and of any suitable number, width, or thickness. In the accompanying drawing they are shown as arranged longitudinally with the axle, and extending the full length of the box. Thus A is a metallic axle-box, and B are the wooden strips, inserted say in dove-tail or other-shaped grooves, *a*, extending it may be the length of the box, and of an interior curvature corresponding or thereabouts to the rotundity of the axle. By thus, or otherwise in a substantially similar manner, combining wood in strips with the harder material of the box, to constitute the bearing, a more perfect lubrication may be kept up, while a solid basis is established for the shaft or axle, and every facility afforded for renewing from time to time the wooden strips, as such is rendered necessary by wear or otherwise.

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

The combination, with a metallic or other hard journal or axle-box, of strips of wood inserted in dove-tail grooves therein, substantially as shown and described.

P. S. DEVLAN.

Witnesses:

J. W. COOMBS,

G. W. REED.