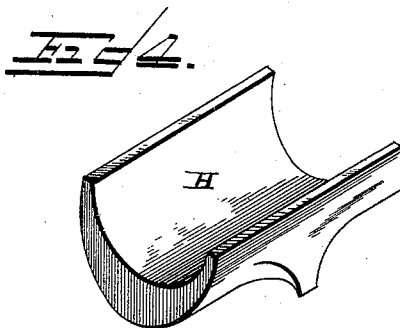
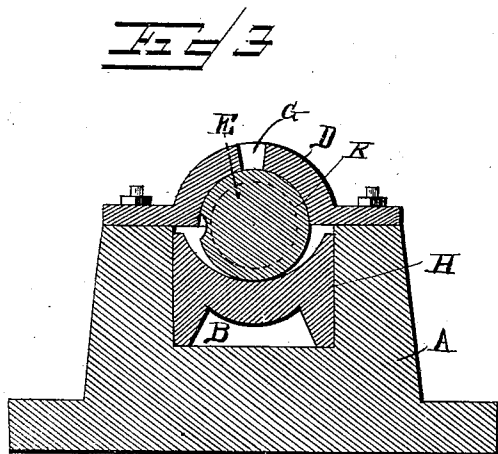
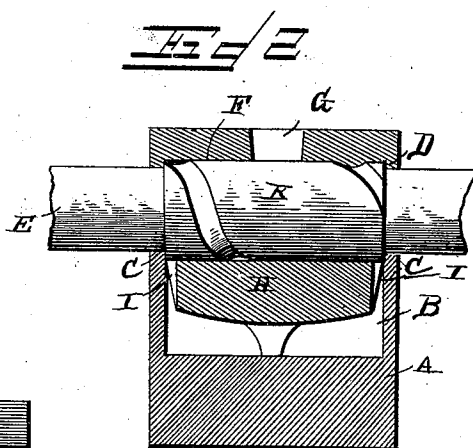
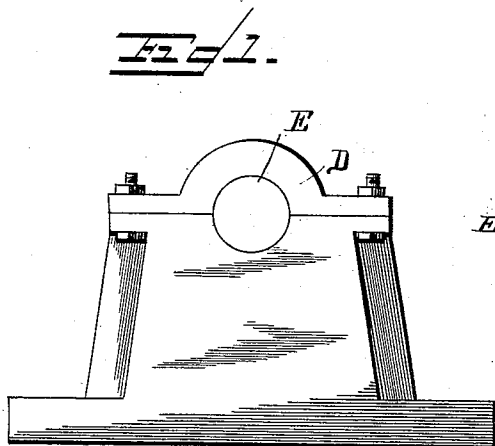


(No Model.)

W. SNEDDON.
JOURNAL BOX.

No. 488,720.

Patented Dec. 27, 1892.



Witnesses

W. E. Schneider

W. E. Schneider

Inventor

William Sneddon.

By his Attorneys,

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

WILLIAM SNEDDON, OF HOUSTON, TEXAS, ASSIGNOR OF ONE-HALF TO JOHN H. ROTHWELL AND JAMES R. CADE, OF SAME PLACE.

JOURNAL-BOX.

SPECIFICATION forming part of Letters Patent No. 488,720, dated December 27, 1892.

Application filed August 2, 1892. Serial No. 441,956. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM SNEDDON, a citizen of the United States, residing at Houston, in the county of Harris and State of Texas, have invented a new and useful Journal-Box, of which the following is a specification.

My invention relates to improvements in journal boxes, the object of my improvement being to provide simple and effective means for applying the lubricant, retaining it always within reach of the wearing surfaces, and conveying it over all of the surface which is subject to frictional contact.

Further objects of my invention will appear in the following description and the novel features will be particularly pointed out in the appended claim.

In the drawings, Figure 1 is a side view of a journal box embodying my improvements. Fig. 2 is a transverse sectional view of the same. Fig. 3 is a longitudinal sectional view. Fig. 4 is a detail view of the removable pillow block.

A represents the base of the journal box, which is hollow to provide an oil chamber or reservoir, B. The base is provided at the upper edges of its sides with the rim bearings, C C, which correspond and combine with similar rim bearings in the cap, D, to form complete bearings for the reception of the shaft, E. The cap is hollowed out or cut away between said rim-bearings, to form the recess bearing, F. An oil hole, G, is provided in the top of the cap.

Within the oil chamber or reservoir is arranged the removable pillow-block, H, which is shorter than said chamber or reservoir, so as to allow passages, I I at each end thereof. The pillow block rests upon the floor of the chamber or reservoir. The shaft is provided with a sleeve, or enlargement, K, equal to the length of the journal-box between its rim-bearings, whereby the ends of said sleeve or enlargement bear against the inner surfaces of said rims, as shown clearly in Fig. 2 of the drawings. The sleeve or enlargement fits and operates snugly in the recess bearing in the cap and also bears upon the upper concave

surface of the pillow block, which is sufficiently below the surface of the rim-bearings to allow of this disposition of the parts. The spaces between the ends of the pillow block and the ends of the oil chamber or reservoir allow the oil to ascend to the plane of the concave surface of the pillow block, where the sleeve or enlargement comes in contact therewith. The oil chamber is filled with oil which is allowed by the relative sizes of the chamber and pillow block to reach the upper surface of the latter. Capillary attraction also assists in conveying the oil to the bearing. The outer surface of the sleeve or enlargement is provided with a spiral groove or grooves, to enable it to carry the oil or other lubricant to all parts of the bearing surfaces, as shown clearly in the several figures.

My invention is applicable to stationary engines, locomotives, cars, and shafting of any kind, and therefore it will be understood that I do not desire to illustrate it in connection with any particular mechanism or limit its application by describing it in connection with any of the above constructions.

Having thus described my invention what I claim and desire to secure by Letters Patent of the United States, is:—

In a journal-box, the hollow base A and removable cap D provided with registering rim-bearings C, and a removable pillow-block H disposed in the cavity of the base, with its upper concave surface below the plane of the lower sides of the bearings, in combination with a shaft journaled in the rim-bearings, and provided with a sleeve K, fitting at its ends against the end walls of the base and bearing upon the surface of the pillow-block, the surface of the sleeve being spirally grooved to convey the lubricant to all parts of the surface of the bearing, all substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WILLIAM SNEDDON.

Witnesses:

JNO. H. RUBY,
JAS. A. PAINTER.