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JOSEPH B. SARGENT.
Improvement in Journal Boxes.

No. 118,647.

fig. 1

Patented Aug. 29, 1871.

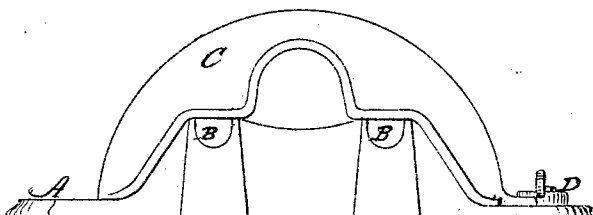


fig. 2

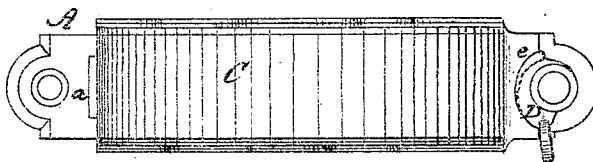


fig. 3

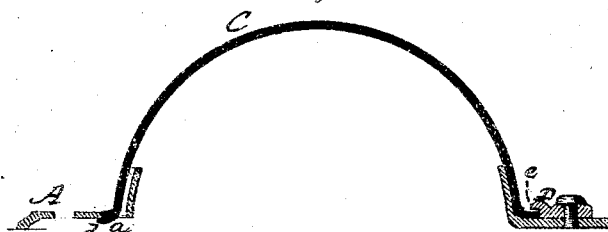


fig. 4



Witnesses.
Wm A Bull
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UNITED STATES PATENT OFFICE.

JOSEPH B. SARGENT, OF NEW HAVEN, CONNECTICUT.

IMPROVEMENT IN JOURNAL-BOXES.

Specification forming part of Letters Patent No. 118,647, dated August 29, 1871.

To all whom it may concern:

Be it known that I, JOSEPH B. SARGENT, of New Haven, in the county of New Haven and State of Connecticut, have invented a new Improvement in Journal-Boxes; and I do hereby declare the following, when taken in connection with the accompanying drawing and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawing constitutes part of this specification, and represents, in—

Figure 1, a side view; Fig. 2, a top view; Fig. 3, a longitudinal section, showing the cover as secured; and in Fig. 4, the same, the cover released.

This invention relates to the arrangement of means for securing the covers of what are known to the trade as grindstone journal-boxes—that is to say, the box fitted with friction-rolls to form the bearing for the journal of the grindstone; and the invention consists in the construction of the bed of the box with a recess at one end, so that a projection on the cover will, when the cover is set into the box, pass through the said recess, and then, when moved in a longitudinal direction, the projection of the cover will pass beneath the bed and be thereby secured at that end, the other end held by a cam or other suitable device, as hereinafter described.

A is the bed of the journal-box; B B, the bearings for the friction-rolls, constructed in the usual manner. Through the bed A I form a slot or recess, *a*, at one end, and the cover C, which may be of any of the usual forms, I construct with a projecting lip, *d*, so that when set onto the box, as seen in Fig. 4, the projecting lip will pass freely through the said recess *a*, and, when so passed through, the cover is moved longitudinally to the position seen in Fig. 3. The projection *d*, passing beneath the bed, secures the end of the cover and prevents its removal. To

secure the other end, and to force the cover to thus move longitudinally, I arrange a cam, D, upon the opposite end of the bed, which, when turned as denoted in broken lines, Fig. 2, allows the introduction of or removal of the cap, as seen in Fig. 4; but when the cap is set onto the box, as seen in Fig. 4, and the cam then turned to the position seen in Figs. 2 and 3, the cap will be forced by the cam to move longitudinally and thus pass the projection *d* beneath the bed, as before described. At the same time a lip, *e*, on the said cam passes over the projecting flange on the cap, which holds the end of the cover securely to the bed.

I do not wish to be understood as broadly claiming a covered journal-box, as such I am aware is not new. I am also aware that the cover has been hinged to boxes so as to be turned over the journal; but in this construction it will be observed that I have no hinge or equivalent for it, the cover being secured simply by a longitudinal movement; and while I have represented this longitudinal movement in one direction, it may be reversed by turning the projecting lip *d* in the opposite direction and reversing the action of the cam.

I claim as my invention—

1. The cap of a journal-box, constructed with a projecting lip, *d*, to pass through a recess, *a*, in the bed, and by a longitudinal movement of the said cap to be secured to the bed by the lip *d* passing beneath the said bed, substantially as herein described.

2. In combination with the foregoing, the cam D, constructed so as to give to the said cap a longitudinal movement and secure it in position, substantially as specified.

JOSEPH B. SARGENT.

Witnesses:

JOHN E. EARLE,
JOHN H. SHUMWAY.