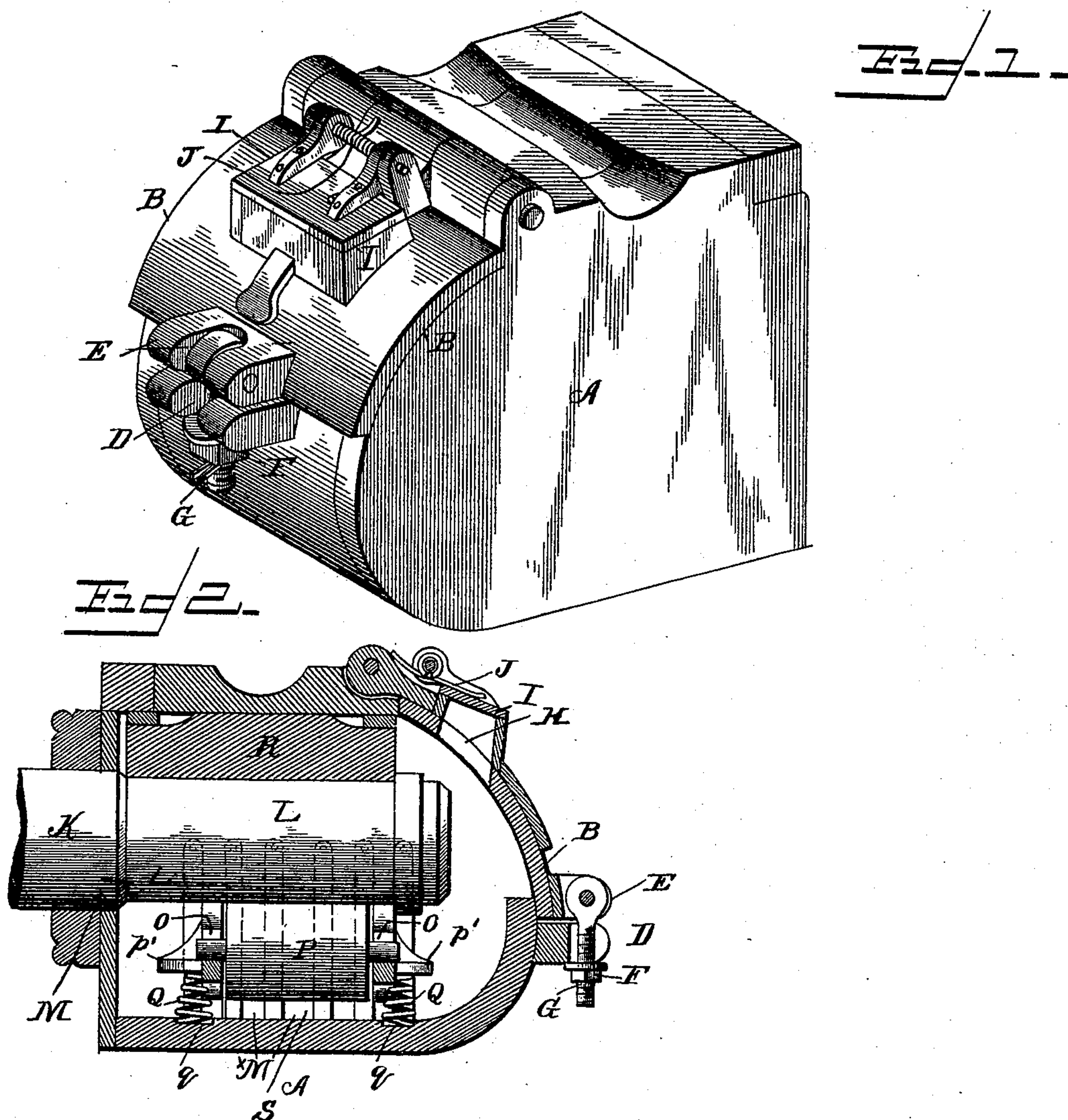


(No Model.)

G. W. LACY.
JOURNAL BOX.

No. 516,311.

Patented Mar. 13, 1894.



Witnesses

C. H. Stewart,

Inventor

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By *his* Attorneys,

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UNITED STATES PATENT OFFICE.

GEORGE W. LACY, OF KINGSTON, NEW YORK.

JOURNAL-BOX.

SPECIFICATION forming part of Letters Patent No. 516,311, dated March 13, 1894.

Application filed October 31, 1892. Serial No. 450,545. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. LACY, a citizen of the United States, residing at Kingston, in the county of Ulster and State of New York, have invented a new and useful Journal-Box, of which the following is a specification.

This invention relates to journal boxes; and it has for its object to provide certain new and useful improvements in journal boxes of that character especially adapted to carry lubricating devices for the ends of car axles.

With these and other objects in view, which will readily appear as the nature of the invention is better understood, the same consists in the novel construction, combination and arrangement of parts hereinafter more fully described, illustrated and claimed.

In the drawings:—Figure 1 is a perspective view of a journal box provided with the improvements contemplated by the invention. Fig. 2 is a central longitudinal sectional view of the same.

A represents the shell or casing of a journal-box and which is provided at its outer front end with an opening which is inclosed by a hinged cover B, provided at its lower edge with a pivoted locking-bolt D, adapted to engage at one end between parallel ears E on the front edge of the shell or casing, and having an adjustable nut F held in place by a pin G passing transversely through the bolt. This locking-bolt engages between the parallel ears, automatically, when the cover is dropped to its closed position. The cover B is provided with a walled opening H, through which the box and bearings may be oiled, and the oil introduced into the bottom of the box for the purpose to appear, said opening being covered by a supplemental pivoted lid I, which is actuated and normally held in a closed position by the torsion spring J, mounted on the pivot of the lid and having one end thereof bearing thereon.

K represents a portion of an axle or shaft provided with a journal end L, which projects into the journal-box. The journal box is provided at its inner end with a ring-bearing M.

The journal box just described while well adapted for use in connection with any suitable lubricating devices which may be placed

therein, is nevertheless found to be especially useful in connection with the lubricating devices which I shall now proceed to describe, but which form no part of the present invention.

Mounted in the opposite vertical guides M^x, arranged upon the opposite inner sides of the box are the sliding blocks or bearings O. The ends of the blocks or bearings O, move in said guides and are provided with the central bearing notches o, in which are removably mounted the spindles of the lubricating roller P, said roller being of metal, wood, or felt, and being supported by said blocks or bearings in contact with the under side of the journal, and adapted to carry the oil through which it passes thereto. The blocks or bearings O, normally press the roller in contact with the journal by means of the springs Q, which springs are arranged thereunder and seated at their lower ends in sockets q, in the bottom of the box, and having their upper ends bearing under the ears or lugs p', integrally projecting from the blocks O. Above the axle or shaft journal end is arranged a removable journal brass or block R, which bears at its upper side against the roof of the box or casing and is provided with a concaved under surface r, to fit the upper side of the journal or shaft. The side edges of the journal brass bear against the side walls of the shell or casing so as to avoid lateral play and hold the journal in position upon the upper side of the lubricating roller, while at the same time the brass or block itself is removably held in place.

The bottom of the casing or box is imperforate to form an oil cavity or reservoir S, and the lubricating roller P, extends nearly to the bottom of said cavity or reservoir, so as to dip at its lower side into the oil contained therein, and carry the same to the journal or shaft, which in turn conveys it to the concaved surface of the journal brass or block R.

From the above description, it will be seen that the lubricating roller carries oil continuously from the cavity or reservoir to the journal or shaft and is rotated and operated by the latter, and this means of lubricating the journal serves to illustrate the character of lubricating devices which the journal box

claimed may be provided with, although it will of course be understood that any suitable approved lubricating devices may be mounted within the journal box.

5 Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

10 The combination of a journal box having an outer front end opening, and parallel ears at the lower front edge of said opening, a cover hinged to the top edge of said opening and adapted to fit over the same, a pivoted locking bolt connected to the moving edge of said hinged cover and provided with an ad-

justable nut, said bolt being adapted to drop 15 between the parallel ears, said hinged cover being further provided with a walled opening therein, a spring actuated supplemental pivoted lid adapted to normally inclose said walled opening, and lubricating devices in 20 said journal box, substantially as set forth.

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

GEORGE W. LACY.

Witnesses:

JAMES B. CAMERON,
W. G. ERTZ BERGER.