

R. C. WRIGHT.

Car-Axle Box.

No. 49,022.

Patented July 25, 1865.

Fig. 1.

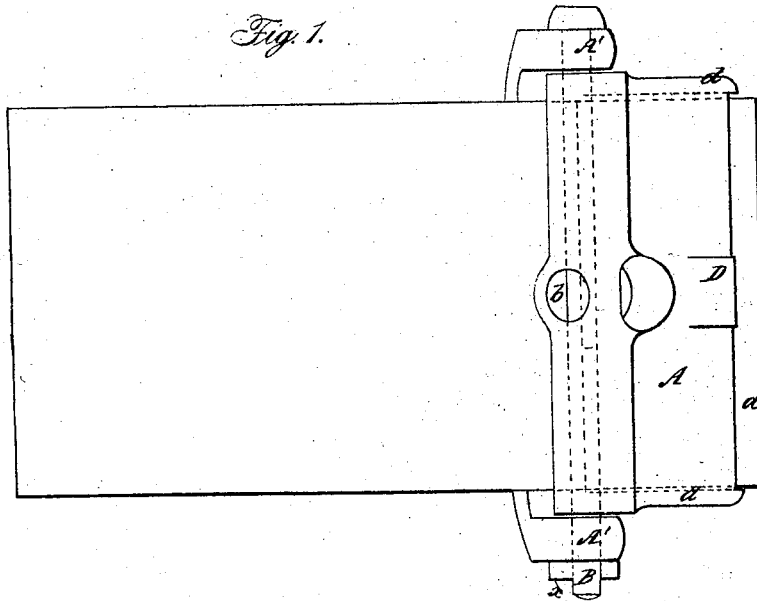
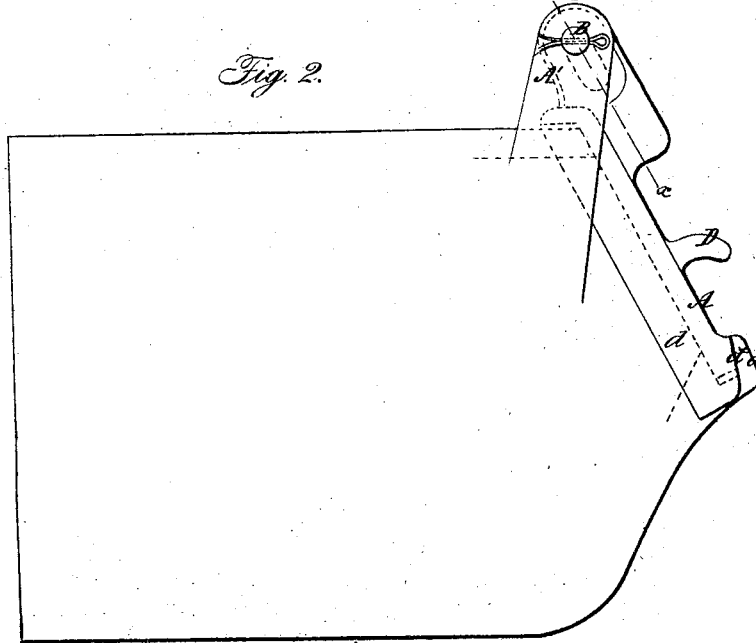


Fig. 2.



Witnesses:

Thos. Tusch
W. Freeman

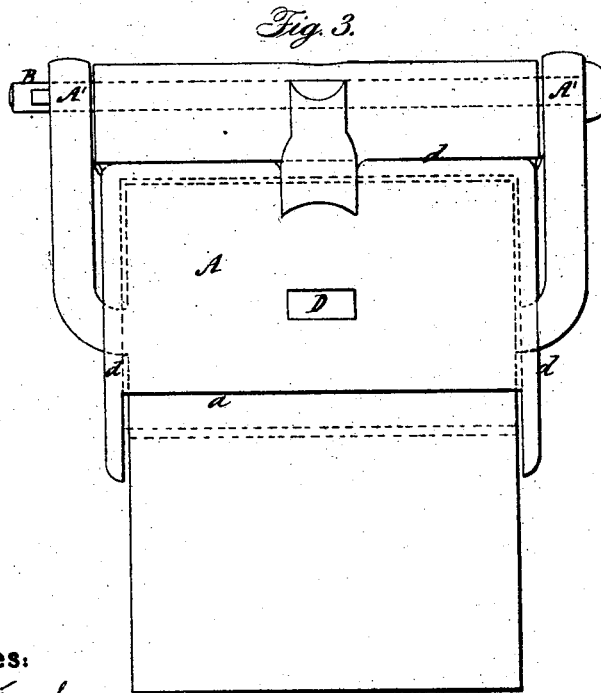
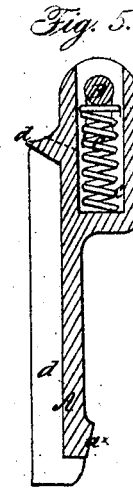
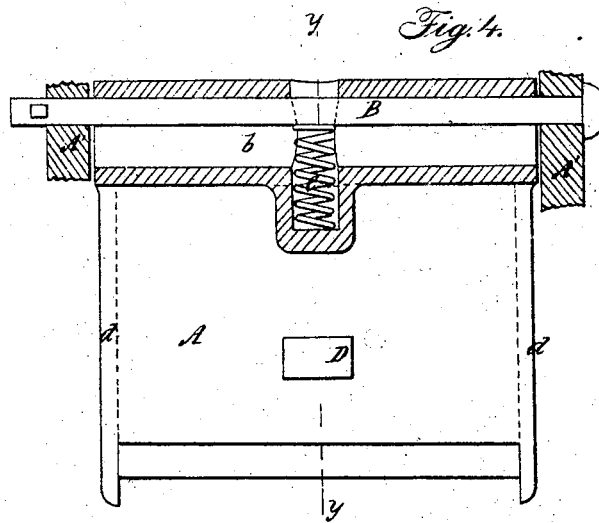
Inventor.

R. C. Wright
By Munn & Co.
Attys.

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Car-Axle Box.

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Witnesses:

Thos. Fitch
Wm. Pravin

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UNITED STATES PATENT OFFICE.

R. C. WRIGHT, OF MEADVILLE, PENNSYLVANIA.

IMPROVEMENT IN RAILWAY JOURNAL-BOXES.

Specification forming part of Letters Patent No. 49,022, dated July 25, 1865.

To all whom it may concern:

Be it known that I, R. C. WRIGHT, of Meadville, in the county of Crawford and State of Pennsylvania, have invented a new and useful Improvement in Railway Axle Journal-Boxes; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a plan or top view of my invention; Fig. 2, a side view of the same; Fig. 3, a front view of the same; Fig. 4, a section of the cover or cap, taken in the line *x x*, Fig. 2; Fig. 5, a section of the cover or cap, taken in the line *y y*, Fig. 4; Fig. 6, a plan or top view of the cover or cap.

Similar letters of reference indicate like parts.

The nature of my invention consists in providing the opening at the outer end of a railway axle journal-box with a cover or cap that may be readily opened for the purpose of inspecting the contents of the box and adjusting and removing the same, and at the same time preventing the admission of dust, dirt, and other foreign substances into the box.

I construct my axle-box in any of the known forms, and to its outer or front end I attach a cover or cap, A, as shown in Figs. 1, 2, and 3. At each side of the axle-box there is an ear, A', having an opening in them near their upper ends to receive a rod or bolt, B. At the lower edge of the opening which the cover or cap fits over there is a lip, *a*, which forms a recess to receive the lower edge of the cap or cover. This lip has its inner side slightly inclined, as shown clearly in Fig. 2. The rod or bolt B passes through an opening, *b*, in the upper end of the cover or cap, said opening being of oblong form in its transverse section to admit of a certain degree of play for the cover or cap, sufficient to allow the lower end of the latter to work in and out of the recess formed by the lip *a*.

The cover or cap is made with a pocket or chamber, *c*, to receive a spiral spring, C, one

end of which bears on the bottom of said pocket or chamber and the other end against the rod or bolt B, as shown clearly in Fig. 4. This spring, it will be seen, has a tendency to keep the lower end of the cover or cap within the recess formed by the lip *a*.

The lower outer surface of the cover or cap is beveled or inclined, corresponding to the inclination of the lip *a*, as shown at *a** in Fig. 2. These inclined surfaces of the parts referred to cause the cap or cover to be pressed snugly to the sides of the box, thereby preventing the admission of dust, dirt, and other foreign substances. The oblong opening *b* is parallel transversely with the inclined sides of the box, against which the cover or cap bears, and hence the latter may fit snugly against the former and be moved in a plane parallel with said inclined sides.

At the outer side of the cover or cap there is a projection or thumb-piece, D, for the convenience of opening and closing the former.

The cover or cap, it will be seen, may be readily swung outward when its lower end is raised free from the lip *a*.

To prevent dirt, dust, and foreign substances from entering the open or outer end of the box, I have ledges *d d d* at the sides and upper part of the cover or cap to project back over the box.

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

1. The application to railway axle journal-boxes of a cover or cap, arranged with a spring, in the manner shown, or in any equivalent way, to operate as set forth.

2. The opening *b* in the upper part of the cover or cap A, the rod or bolt B, and the spring C, arranged substantially as and for the purpose specified.

3. The lip *a*, having an inclined inner surface, in combination with the lower beveled surface, *a**, of the cover or cap A, and a spring, C, for the purpose specified.

R. C. WRIGHT.

Witnesses:

J. F. SCHNEEBERGER,
C. H. LEWIS,