

(No Model.)

C. D. FLYNT.
DUST GUARD FOR JOURNAL BOXES.

No. 572,883.

Patented Dec. 8, 1896.

Fig. 1.

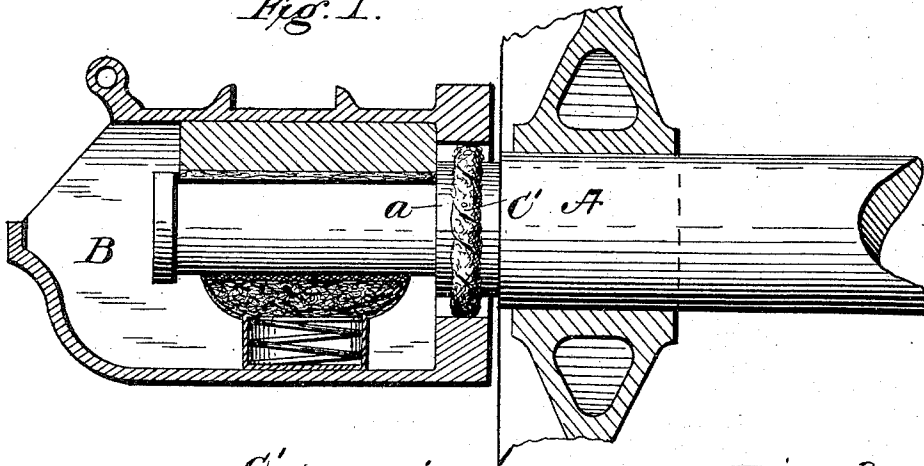


Fig. 2.

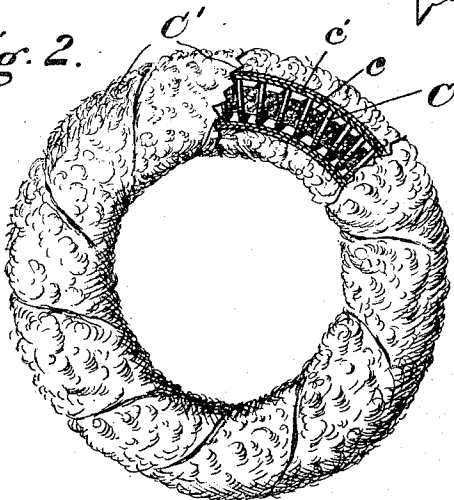


Fig. 3.

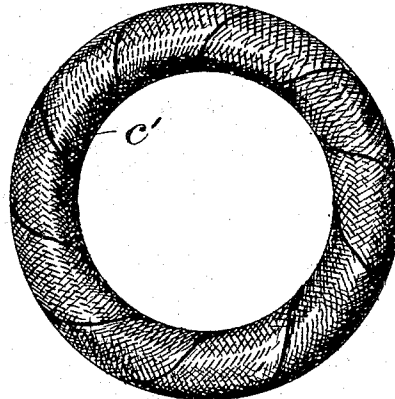


Fig. 4.

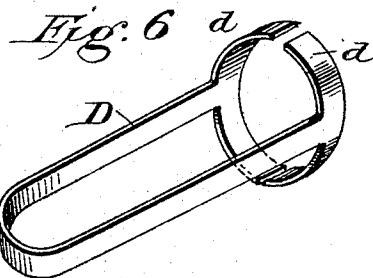
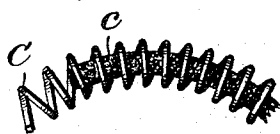
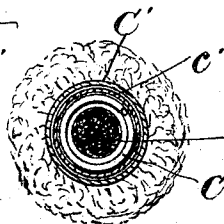


Fig. 5.



Witnesses
F. L. Ouraud
George J. Huber

Inventor
Chester D. Flynt.
per *Q. W. Bradford*
his Attorney

UNITED STATES PATENT OFFICE.

CHESTER D. FLYNT, OF BROOKLYN, NEW YORK, ASSIGNOR OF ONE-HALF
TO JOHN T. JONES, OF SAME PLACE.

DUST-GUARD FOR JOURNAL-BOXES.

SPECIFICATION forming part of Letters Patent No. 572,883, dated December 8, 1896.

Application filed October 7, 1896. Serial No. 608,149. (No model.)

To all whom it may concern:

Be it known that I, CHESTER D. FLYNT, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Dust-Guards for Journal-Boxes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My said invention consists in an improved construction of dust-guards for journal-boxes, especially the journal-boxes of railway-cars, whereby dust is prevented from getting into such box around the journal and the lubricant is prevented from being wasted through the opening around said journal at its entrance to said box, all as will be hereinafter more fully described and claimed.

Referring to the accompanying drawings, which are made a part hereof and on which similar letters of reference indicate similar parts, Figure 1 is a longitudinal section through a journal-box of the character named, showing a dust-guard of my improved construction on the axle at the point required to close the opening around it at its entrance, as when in use; Fig. 2, an elevation of one of said guards separate, a portion being broken away to show the interior construction more clearly; Fig. 3, a view showing the guard without the outside covering; Fig. 4, a detail view of a portion of the center of the guard; Fig. 5, a cross-section through one side of the guard, and Fig. 6 a view in perspective of a tool which I have especially designed for use in putting said guards in place and adjusting or removing them.

In said drawings the portions marked A represent the axle; B, the journal-box; C, the dust-guard, and D the tool for handling said guard.

The axle A, journal-box B, and parts shown other than the dust-guard and tool are or may be of the usual or any desired construction and form a part of a railway-car or belong to any other structure wherein such a device is useful.

The dust-guard is composed of a ring or annulus C of coiled spring-wire, which affords elasticity to the device, enabling it to be distended to pass over any axle or journal and then contract to seat itself firmly thereon to revolve therewith. Said annulus is filled with wool or similar absorbent material *c* and covered with fabric *c'*, wound spirally around the same, so as not to interfere with its elasticity. The ring so covered is shown in Fig. 3. It is then covered with a strip of sheepskin C', containing the wool, with the wool side out, this being also wound spirally thereon for a similar purpose. While I denominate this covering "sheepskin" it will be readily understood that other woolly fabric or substance may be used so long as the function is accomplished of closing the annular opening around the axle or journal and the dust kept out and the lubricant kept in the box. I regard the sheepskin as preferable, as the wool thereon is a good absorbent of the oil thrown against it and gives it back to the surrounding parts, where it is needed, in an efficient manner, while at the same time affording an efficient bar to the entrance of any dust from the outside and presenting a soft surface to the parts against which it contacts, which induces neither wear nor friction.

The tool D is a bar or rod of spring metal doubled and provided with semicircular or curved transversely-extending arms *d*. In use the ring or guard is placed on these arms, and by the manipulation of the handle part said guard is readily distended to a size which will enable it to be easily run on over the end of the journal and the shoulder onto the part *a*, when by compressing the parts of the handle, bringing the ends of the arms *d* together or toward each other, the guard is so nearly released that it can be readily slipped off said arms, and it then, by its own spring force, contacts to seat itself firmly on the surface of said part *a* to revolve with the axle, the wool on its outside at the same time pressing close against the interior of the opening to this end of the box and closing it completely and securely against the entrance of dust or the escape of lubricant.

Having thus fully described my said invention, what I claim as new, and desire to secure by Letters Patent, is—

- 5 1. A dust-guard for journal-boxes composed of a ring or annulus of expansible material having an exterior of wool, the fabric supporting the same being wound spirally on said ring or annulus, substantially as set forth.
- 10 2. A dust-guard for journal-boxes composed of a coiled-wire ring or annulus filled with wool and covered with a strip of sheepskin wound spirally thereon with the wool side out, substantially as set forth.
3. A dust-guard for journal-boxes composed

of an elastic ring covered with fabric and a 15 woolly outside surface, substantially as set forth.

4. A dust-guard for journal-boxes, composed of a coiled-wire annulus covered with a strip of sheepskin wound spirally thereon, sub- 20 stantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

CHESTER D. FLYNT.

Witnesses:

ALBERT FIRTH,
JOHN T. JONES.