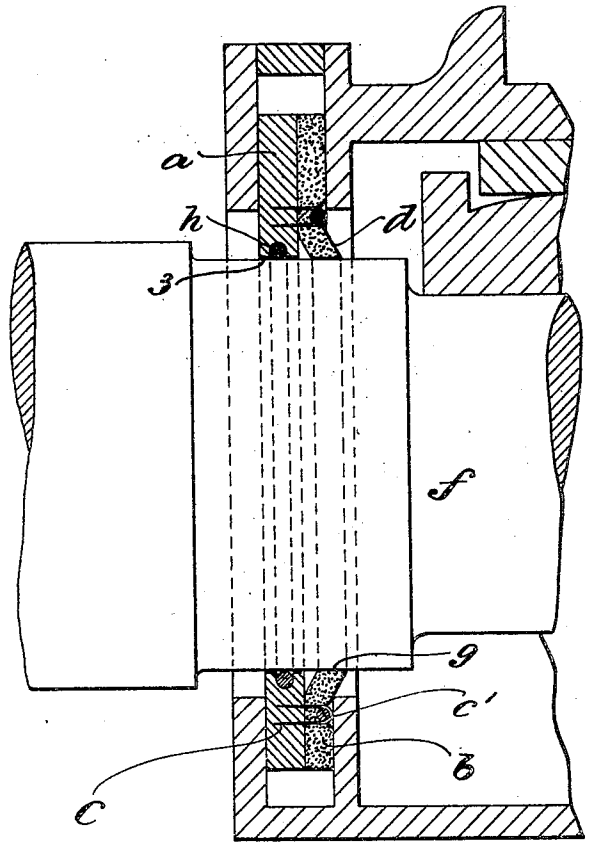
No. 838,707. PATENTED DEC. 18, 1906.

G. F. GODLEY.

DUST GUARD.

APPLICATION FILED SEPT. 13, 1905.

Fig. 3



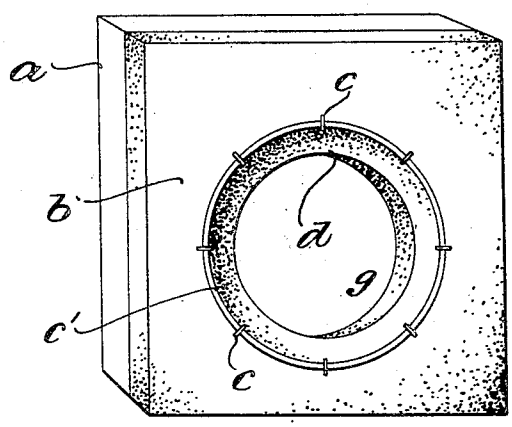


Fig. 1

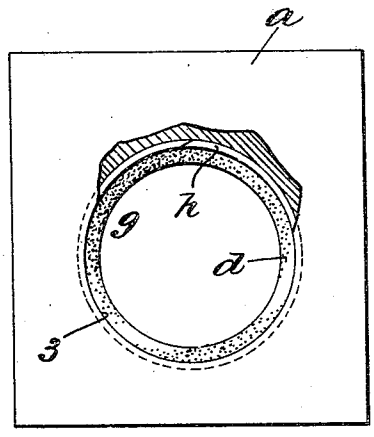


Fig. 2

Witnesses:
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By William E. Jackson
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UNITED STATES PATENT OFFICE.

GEORGE F. GODLEY, OF PHILADELPHIA, PENNSYLVANIA.

DUST-GUARD.

No. 838,707. Specification of Letters Patent. Patented Dec. 18, 1906.

Application filed September 13, 1905. Serial No. 278,212.

To all whom it may concern:

Be it known that I, GEORGE F. GODLEY, a citizen of the United States, residing at the city of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and useful Dust-Guard, of which the following is a specification.

The invention is applicable to the boxes of railway-cars, and has for its object, among others, to provide a novel construction which can be inexpensively manufactured; to further provide a light, simple, durable, and reliable dust-guard that can be applied to existing types of boxes without necessitating any change of structure therein; to provide a dust-guard having a rigid member and a flexible or pliable member so arranged in respect to each other that there is present an annular rim or collar upon the flexible member adapted to hug the axle; to further provide a dust-guard having a pliable member adapted to fit and press snugly against the inner wall of the axle-box to prevent dust and dirt from finding its way to bearing.

The invention consists of the improvements hereinafter described and finally claimed.

The nature, characteristic features, and scope of the invention will be more fully understood from the following description, taken in connection with the accompanying drawings, forming part hereof, and in which—

Figure 1 is a perspective view of a dust-guard of the invention; Fig. 2, an elevational view showing detail construction; and Fig. 3 is a view, principally in section, illustrating application of the dust-guard to a journal and its complemental box.

Referring to the drawings, *a* is a one-piece rigid member, which may be of wood, and *b* is a one-piece pliable member, preferably of felt, which covers the entire outer face of the rigid member and is uncorrugated and uncreased. The two members may be rectangular in configuration and may be secured together in any suitable manner. In the present instance use has been made of staples *c* for this purpose. A ring *c'* is embedded slightly in the pliable member and is held in place by the staples *c*. This serves to provide upon the pliable member *b* an annular rim or collar *d*, the purpose of which will hereinafter appear.

The respective members are constructed in such manner that the axle-opening 3 of the rigid member is approximately of the same dimension as the axle *f*, while the axle-opening *g* of the pliable member is considerably smaller than the axle and opening in the rigid member and extended to hug the axle, so much so that the rim or collar *d* hugs the axle *f* very snugly and serves to prevent dust and dirt from finding its way to the journal. The said pliable member, which is comparatively thick and of a yielding nature, also fits close up to the inner wall of the axle-box and serves to prevent dust and dirt from attacking the bearing. The rim or collar *d* wipes up, as it were, lubricant that would otherwise find its way from the box, and the contracted portion of the pliable member caused by the ring-and-staple connection serves to prevent said lubricant from spreading beyond said point of contraction. The rigid member may be provided with an annular recess for the reception of a substantially continuous metallic ring *h*, which acts to prevent undue wear upon the wooden member.

Having thus described the nature and objects of the invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A dust-guard comprising a one-piece rigid member having an axle-opening, a one-piece comparatively thick felt member also having an axle-opening and covering the entire outer face of the rigid member, said felt member being uncorrugated and uncreased and extending at its opening so as to closely hug the axle, a continuous metal ring surrounding the opening in the felt and means engaging the ring for securing the felt to the rigid member, substantially as described.

2. A dust-guard comprising a one-piece rigid member having an axle-opening approximately the same size as the axle diameter, a one-piece comparatively thick felt member having cut therein an axle-opening that is a true circle and is considerably smaller than the axle diameter and covering the entire outer face of the rigid member, said felt member being uncorrugated and uncreased and extending at its opening to form a rim or collar that closely hugs the axle and means surrounding the last-mentioned opening to form said rim or collar.

3. A dust-guard comprising a pair of members of which one is rigid and the other pliable material, said members being provided with axle-openings, whereof the opening in the rigid member is grooved and fitted with a metallic wear-ring, annular means encircling the axle-opening of the pliable member, and

means for embedding the same into the pliable member to form a rim or collar.

4. A dust-guard comprising a pair of members of which one is rigid and the other of pliable material said members being provided with axle-openings, annular means encircling the axle-opening of the pliable member and means for embedding the same into the pliable member to form a rim or collar, substantially as described.

In testimony whereof I have hereunto set my hand and seal.

GEORGE F. GODLEY. [L. S.]

Witnesses:

W. J. JACKSON,

GRANT C. OSBORNE.