

(No Model.)

S. G. DOWN.
COVERING FOR JOURNAL BEARINGS.

No. 579,565.

Patented Mar. 30, 1897.

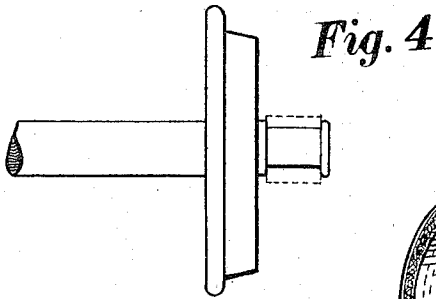


Fig. 4

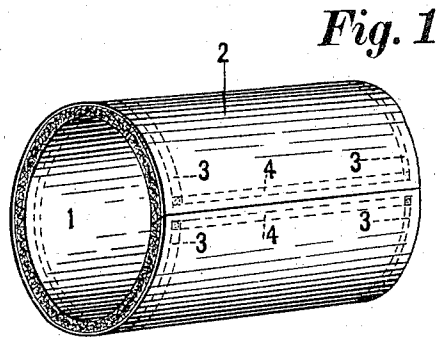


Fig. 1

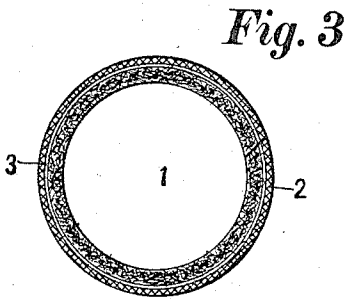


Fig. 3

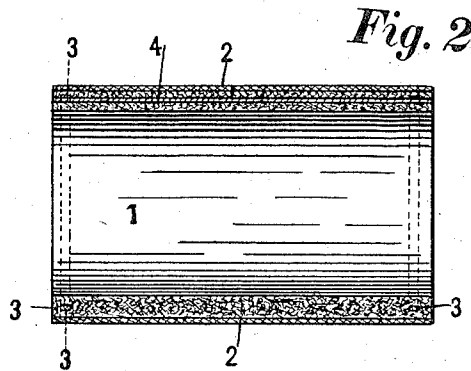


Fig. 2

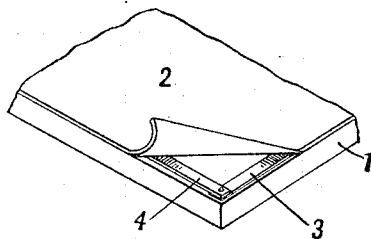


Fig. 5

WITNESSES.

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UNITED STATES PATENT OFFICE.

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COVERING FOR JOURNAL-BEARINGS.

SPECIFICATION forming part of Letters Patent No. 579,565, dated March 30, 1897.

Application filed January 9, 1897. Serial No. 618,552. (No model.)

To all whom it may concern:

Be it known that I, SIDNEY GEORGE DOWN, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Coverings for Journal-Bearings; 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, reference being had to the accompanying drawings, forming a part of this specification.

This invention relates to new and useful improvements in coverings for axle-journals; and it consists in the construction and association of parts, as hereinafter fully set forth, and pointed out particularly in the claims.

The object of the invention is to provide a detachable waterproof covering for the journals of axle-bearings to be used upon said journals when the axles of railway-cars and their respective wheels are being transported from place to place or when said journals are exposed to the weather, which object is attained by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a general perspective view of a covering as constructed in accordance with my invention. Fig. 2 is a vertical longitudinal section through Fig. 1. Fig. 3 is a transverse section on dotted line 3 3 of Fig. 2. Fig. 4 is an elevation of a car-wheel and a portion of its axle, said view showing by dotted lines the position of my covering when in use; and Fig. 5 is an enlarged detail showing the interior construction of the covering.

Referring to the numerals of reference, 1 designates a strip of felt or other flexible absorbent material, which piece is wide enough to fit between the flanges of a car-axle journal, as shown in Fig. 4, and long enough to extend snugly therearound. It is preferable to cut the meeting edges of said strip so that a bevel or lap joint is produced, thereby rendering moisture less liable to pass there-through. Extending over the entire exterior of said strip 1 and cut so as to correspond with the contour thereof is a covering or jacket 2, composed of canvas or other suitable fabric.

Extending longitudinally of the pieces 1

and 2 and located therebetween near their outer edges are metal strips 3, said strips being curved, as shown by dotted lines in Fig. 1, to form circular clamping-bands.

Extending from the ends of one band to the ends of the other are metal stays 4, said stays being riveted or otherwise rigidly secured to said bands, the purpose of the stays 4 being to hold the clamping-bands in proper relation to each other and to provide stiff meeting edges of the covering as a whole.

It will now be seen that in applying this improved covering the sides thereof are grasped, its meeting edges parted to increase its interior diameter so that it may be passed over the flanges of the journal, and when midway therebetween said sides are released, which, by reason of the spring clamping-bands, said covering will automatically and snugly fit itself around the journal, as will be well understood.

After the construction of the covering has been completed it is saturated with oil having a good body, which causes it to adhere more closely to the surface of the journals, also to form a better closure between its meeting edges.

It will also be seen that this improved covering may be manufactured very cheaply, and by its use the journals of car or other axles may be protected from exposure to elements which operate harmfully upon their compositions or polished surfaces. The use thereof will also obviate the necessity of applying a coat of lead or other mixture to the surfaces of said journals, as commonly done, and requiring the expenditure of considerable time and labor in removing said coat, especially when it has become hardened.

It is apparent that these coverings may be used an indefinite number of times without wear or deterioration.

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

1. As a new article of manufacture, a covering for the journal-bearings of axles or shafts, the same consisting of a body of felt, or other absorbent material, having an outer jacket of canvas, and interior clamping-bands, substantially as and for the purpose set forth.

2. A covering for metallic surfaces, the same consisting of a body 1 composed of felt or other flexible, absorbent material, a jacket 2, curved longitudinal clamping-bands 3, trans-verse stays 4, and said body and jacket adapted to be saturated with oil, or other similar substance and the whole adapted to be applied to the surfaces of journals sub-

stantially as shown and described, for the purpose set forth. 10

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

SIDNEY GEORGE DOWN.

Witnesses:

H. ROSCOE WHEELER,
FRANK S. WHEELER.