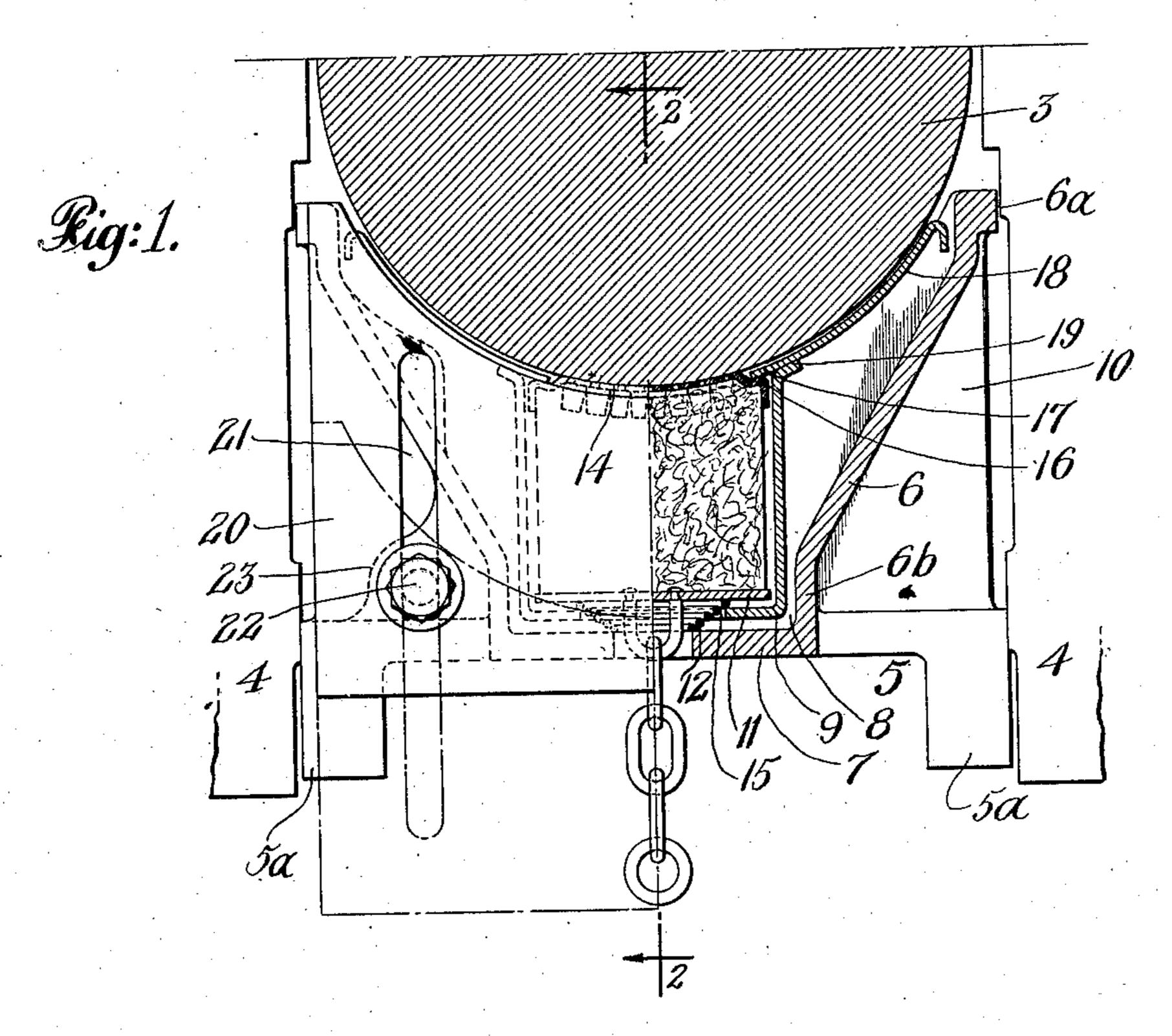
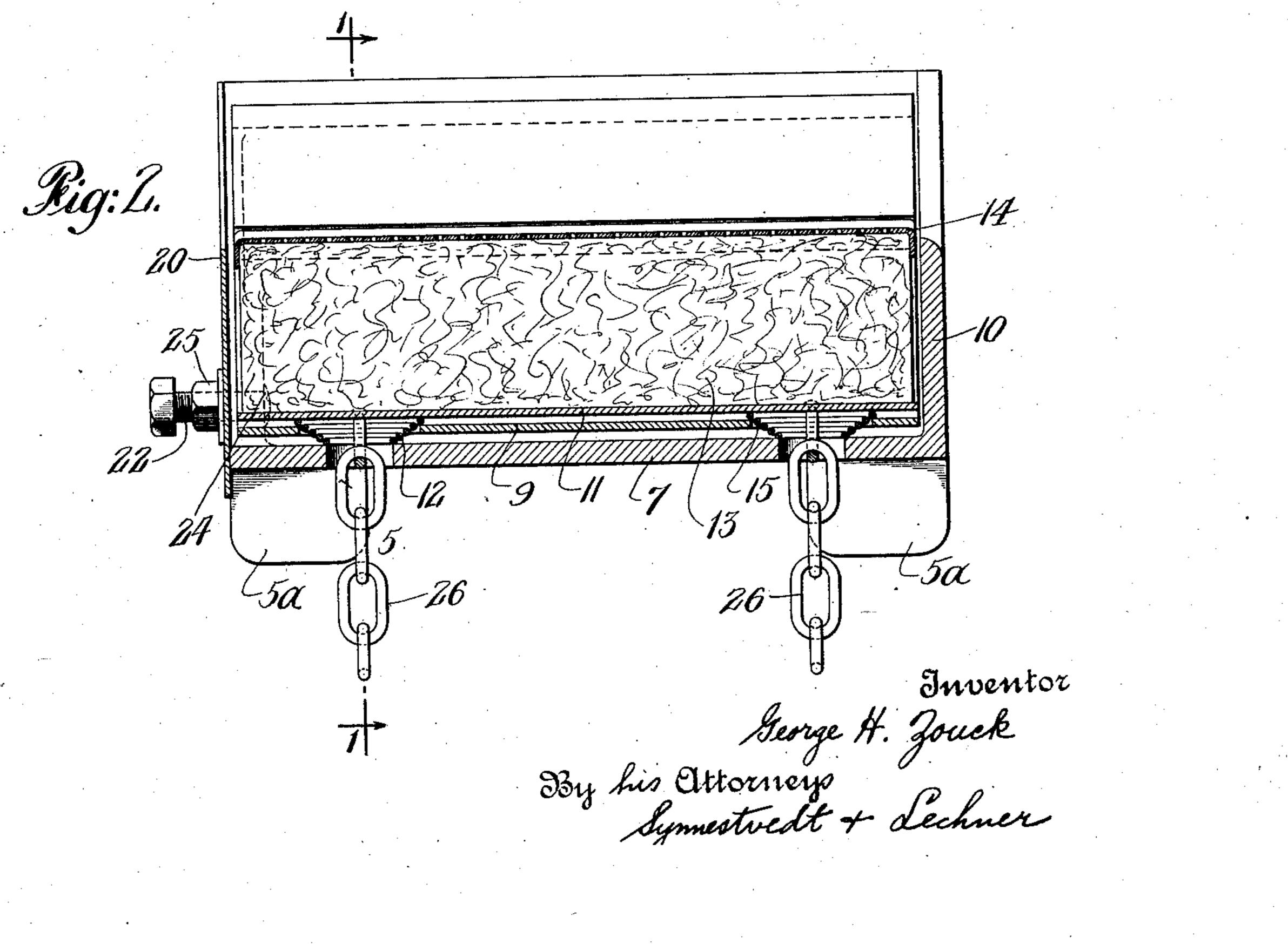
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G. H. ZOUCK

LOCOMOTIVE DRIVING BOX LUBRICATOR

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UNITED STATES PATENT OFFICE

GEORGE H. ZOUCK, OF ORANGE, NEW JERSEY, ASSIGNOR TO FRANKLIN RAILWAY SUPPLY COMPANY, OF NEW YORK, N. Y., A CORPORATION OF DELAWARE

LOCOMOTIVE DRIVING-BOX LUBRICATOR:

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This invention relates to lubricators for locomotive driving boxes, particularly to that ing taken on the line 1-1 of Fig. 2. type which includes a lubricant cellar of a Fig. 2 is a longitudinal sectional view taken width substantially less than the diameter of on the line 2-2 of Fig. 1, the journal being 5 the journal or the distance between the box omitted.

legs.

than the type which provides for the use of 10 a grease cake of substantially the same width as the diameter of the journal. The larger grease cake, with its extended upper surface contacting with the journal, is fed to the 15 cating qualities deteriorate, at times, to an distance and then extend diagonally to the 65 20 newed before it is entirely used up. The stantially the overall width of the spreader. 70 smaller grease cake, with its relatively small The lower vertical portions 6 of the side to the journal more rapidly. The use of a smaller cake thus eliminates waste but it A grease cake 13 is supported in the cellar 25 also presents the problem of providing protection, particularly from dirt, for those portions of the journal which contact with and are protected by the extended surface of the larger cake.

The primary objects of the present invention are to provide means for effectively protecting the journal between the sides of the grease cake and the box legs and to provide means which will automatically advance the 35 protecting means as wear occurs in the bearremain adjacent the journal at all times.

More specifically I provide a lubricant con- journal at all times. tainer or cellar having outwardly extending by the grease cake.

jects and advantages are obtained will be member 5, as shown at 24 in Fig. 2. Lock 95 sidered in connection with the accompanying drawings, wherein,

embodying my improvements, the section be-

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Referring now to the drawing, the refer-This particular type of lubricator is more ence numeral 3 indicates the journal and 4,4 efficient in the use of the grease or lubricant, the legs of the driving box. A spreader member indicated as a whole by the reference numeral 5 is positioned between the box legs. 60 The spreader member comprises a bottom 7 substantially smaller in width than the distance between the box legs 4, 4; side walls 6 journal relatively slowly and hence its lubri- which extend vertically upward for a short extent which impairs the lubrication of the point 6°, as indicated in Fig. 1; lugs 5°, which journal before the cake is entirely used up. may be machined to fit any particular width In order to maintain proper lubrication of of box, extending laterally from each corner the journal the cake must, therefore, be re- of the bottom 7; and a rear wall 10 of sub-

surface contacting with the journal, is fed walls 6 and the bottom 7 form a guiding pocket for the lubricant container or cellar 9.

on a follower plate 11 which, in turn, is 75 supported by the springs 12 extending downwardly through the openings 15 provided in the bottom of the cellar 9 and seating on the spreader member 5. A perforated plate 14 is interposed between the journal and the so grease cake and is provided with shoulders 16 which are adapted to engage the inwardly extending edges 17 of the flanges 18. The flanges 18 are welded to the top of the cellar walls at 19. Thus the springs 12 do not only 85 ing brass so that the protecting means will serve to advance the grease cake but also to keep the protecting flanges 18 adjacent the

The cover plate 20 for the lubricating eleflanges secured to the top edges of its side ments is provided with vertically extending walls, said flanges and cellar being supported slots 21 through which the bolts 22 extend. These bolts 22 are riveted at their inner ends, How the foregoing together with other ob- onto the ears 23 provided on the spreader clear from the following description con- nuts 25 are provided on the bolt shanks so that the cover plate may be firmly secured in place. This securing arrangement for the Fig. 1 is a front view, half in elevation and cover plate provides easy access to the lubri-50 half in section of a locomotive driving box cator and, at the same time, eliminates the 160 danger of losing the plate as it is not detachable.

The usual chains 26 are provided on the follower for the purpose of inspecting the 1 lubricator and also for relieving the follower tension when inserting a new cake of

grease. According to the foregoing I provide journal protecting flanges secured to the cellar and means for carrying said flanges and cellar on the grease cake, thus keeping the flanges adjacent the journal as it moves and wear occurs in the bearing brass.

I claim:—

1. A journal lubricator comprising in combination with the box legs, a grease cake of substantially less width than the distance between said legs, means for urging said grease cake upwardly against said journal, a perforated plate interposed between said cake and said journal having shoulders along its edges, and means engaging said shoulders for protecting the journal at the sides of the grease cake.

2. In a journal lubricator, the combination of a cellar member having means secured thereto for protecting a portion of the journal bearing surface on each side of said cellar, a grease cake in said cellar, means for 30 urging said cake upwardly against said journal, a perforated plate interposed between said cake and said journal having means thereon for engaging said protecting means and thereby support said protecting means 35 and said cellar.

3. A journal lubricator comprising in combination with the box legs, a spreader member between said legs having downwardly converging side walls, a cellar member of 40 substantially the same width as the distance between said walls at the bottom thereof, a grease cake in said cellar, means for urging said cake upwardly against the journal and means supported by said cake and secured to 45 said cellar for protecting the bearing surface of the journal at the side of said cake.

In testimony whereof I have hereunto signed my name.

GEORGE H. ZOUCK.