

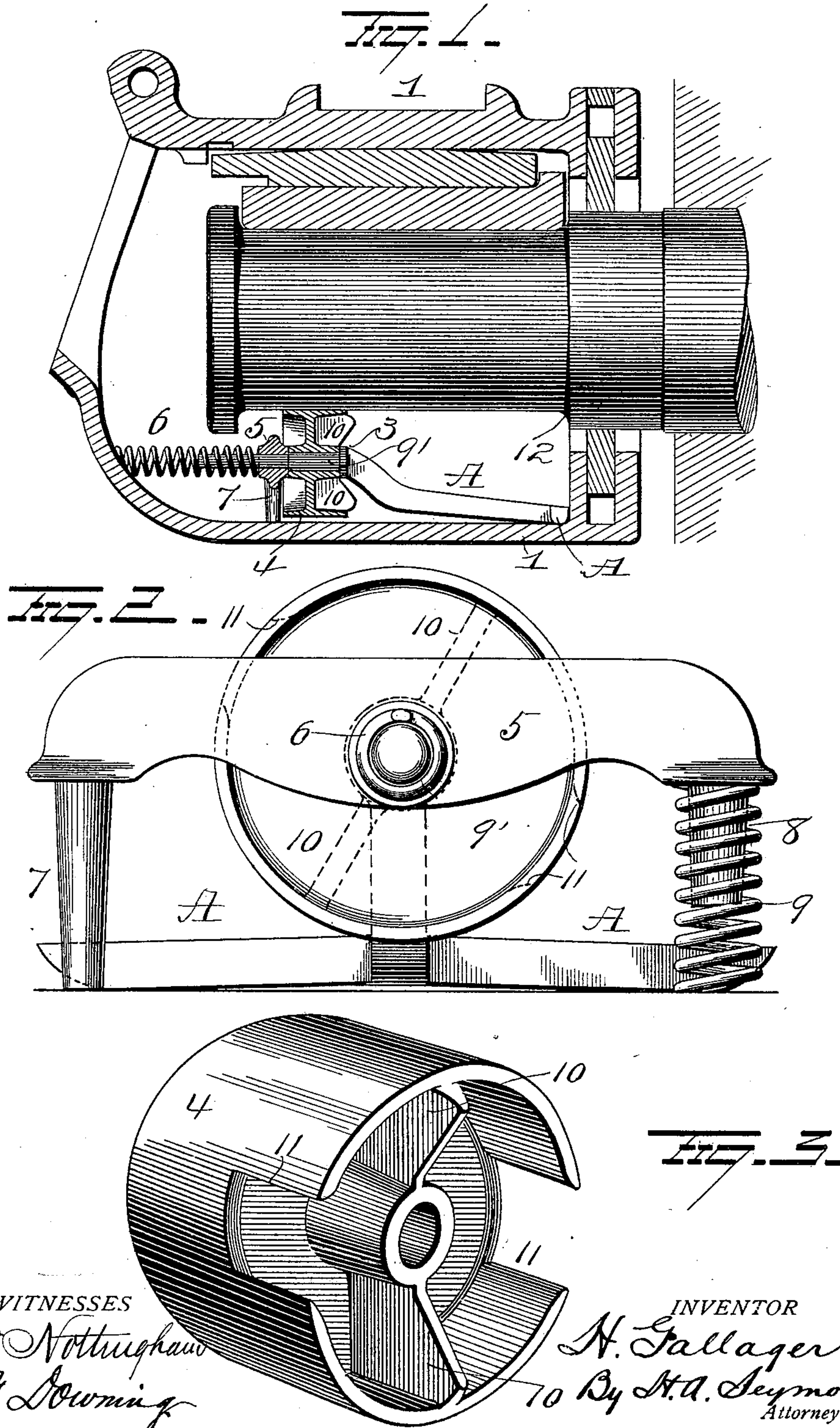
No. 631,210.

Patented Aug. 15, 1899.

H. GALLAGER.  
CAR AXLE LUBRICATOR.

(Application filed July 7, 1899.)

(No Model.)





# UNITED STATES PATENT OFFICE.

HENRY GALLAGER, OF SAVANNAH, GEORGIA, ASSIGNOR OF ONE-HALF TO  
JOHN J. McDONOUGH, OF SAME PLACE.

## CAR-AXLE LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 631,210, dated August 15, 1899.

Application filed July 7, 1899. Serial No. 723,080. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY GALLAGER, of Savannah, in the county of Chatham and State of Georgia, have invented certain new and  
5 useful Improvements in Car-Axle Lubricators; 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  
10 use the same.

My invention relates to an improvement in car-axle lubricators, the object being to provide a device consisting of few parts and designed to be applied to any of the ordinary  
15 forms of railroad-car journal-boxes now in universal use.

A further object is to provide a cheap and efficient device of few parts which can be easily assembled and quickly applied to an  
20 axle-box.

With these ends in view my invention consists in certain novel features of construction and combinations of parts, as will be hereinafter more fully described, and pointed out  
25 in the claims.

In the accompanying drawings, Figure 1 is a view in longitudinal vertical section of a box, showing my invention in position. Fig. 2 is a view in end elevation of my invention,  
30 and Fig. 3 is a detached view of the lubricating-roller.

A represents a bracket the lateral member or cross-arm of which is adapted to rest on the base or floor of box 1, the ends of said  
35 lateral member terminating in close proximity with the side walls of said box, whereby lateral movement of said bracket is prevented. The horizontal member of bracket A, from its point of juncture with the cross-section thereof, is inclined forwardly for a suitable distance. Thence it is bent upwardly to collar 3, from which point it extends forwardly in a straight line. The straight portion of this horizontal section of bracket A is  
40 made cylindrical in form and of varying diameters, the section thereof having the greatest diameter being designed for the accommodation of lubricating-roller 4, while the remaining portion thereof is for the accommodation of the supporting-yoke 5 and retain-

ing-spring 6. The free end of spring 6 rests against the inner lower face of the forward end of the axle-box and is designed to yieldingly support the bracket A and the parts just described against endwise and lateral  
55 movement. The yoke 5 is provided at one end with a rigid leg 7 and at its other end with a stud 8, adapted to receive the spring 9, the latter forming a yielding leg or support for one end of said yoke, thus allowing the lat-  
60 ter to yield or give and follow the movements of the journal.

The lubricating-roller 4, which is journaled on the bearing 9' of the bracket A, is preferably provided with a broad tread, so that a  
65 large portion of the journal will be positively lubricated thereby while moving in contact with said journal. Within the rear concaved side of this roller 4 are formed a series of blades 10, the forward ends of which terminate beyond the peripheral edge of said roller  
70 for the purpose of throwing the lubricating material onto the portion of the journal to the rear of the lubricating-roller and for more thoroughly distributing the lubricating material upon the journal. The tread or periphery of roller 4 is provided on the side adjacent to the blades 10 with a series of openings 11,  
75 preferably disposed at right angles to said blades. When the roller is in motion, these openings while passing through the lubricating material contained on the floor of box 1 scoop up the said lubricating material, and as said roller revolves the material is caught  
80 up by the blades 10 and violently thrown against the journal, as previously explained. With this construction it will be seen that the lubricating device is located under the journal and adjacent to the floor of the box 1, and hence is always in a position to take up any  
90 lubricating material in the box and deposit it on the under side of the journal, and by providing the lubricating-roller with blades projecting outwardly beyond the inner edge of the lubricating-roller the lubricating material is thrown against the exposed portion of the journal, between the lubricating-roller and the shoulder 12 formed on the journal. By providing the yoke 5 with one spring leg  
100 or support it will be seen that the lubricating-



roller can follow the vertical movements of the journal and always remain in contact therewith, and by providing the device with the coiled spring 6 the device can be applied to  
 5 journal-boxes of different lengths, and also permits of a limited endwise sliding movement of the bracket. Again, this spring when in position shown in Fig. 1 locks the lubricating-roller and yoke to the bracket.

10 This device is exceedingly simple in construction and is of few parts, which may be quickly and easily assembled within the journal-box.

It is evident that changes in the construction and relative arrangement of the several  
 15 parts might be made without avoiding my invention, and hence I would have it understood that I do not restrict myself to the particular construction and arrangement of parts shown  
 20 and described; but,

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

1. The combination with a bracket having  
 25 a cylindrical bearing, of a lubricating-roller mounted on said bearing, a yoke secured on said bearing to the outside of the lubricating-roller, and a coiled spring on the end of said cylindrical bearing, the said coiled spring projecting beyond the bearing, substantially as  
 30 set forth.

2. The combination with a bracket having a cylindrical bearing, a lubricating-roller mounted on said bearing, a yoke having an  
 35 opening to receive said bearing and provided at one end with a rigid leg and at its other with a yielding leg and a spring for locking said lubricating-roller and yoke in position, substantially as set forth.

40 3. The combination with a bracket and a yoke for supporting the same, of a lubricating-roller mounted on said bracket and having a recessed side and blades located therein and projecting beyond the periphery of the  
 45 roller, substantially as set forth.

4. The combination with a bracket and a yoke supporting the outer end of said bracket, the said yoke having one integral leg and a yielding leg, of a lubricating-roller mounted

on the bracket adjacent to the yoke, substantially as set forth. 50

5. The combination with a bracket and a yoke supporting the outer end of same, the said yoke having one rigid leg and one yielding leg, of a lubricating-roller mounted on  
 55 said bracket adjacent to the yoke and provided on its inner face with a series of blades, the latter projecting outwardly beyond the periphery of said roller, substantially as set forth. 60

6. The combination with a bracket, a yielding yoke supporting one end of same and a roller mounted on the bracket adjacent to the yoke, of a spring secured on the end of the bracket for holding the yoke and roller  
 65 in place, the said spring projecting beyond the end of the bracket and bearing against the inner face of the outer end of the journal-box, substantially as set forth.

7. The combination with a bracket approximately T-shaped, a yielding yoke supporting one end of said bracket and a lubricating-roller journaled on the bracket adjacent to the yoke, of a coiled spring mounted on the outer end of the bracket and projecting  
 75 beyond same, substantially as set forth.

8. The combination with a bracket and a yoke supporting one end of same, of a lubricating-roller journaled on the bracket and provided with a recessed end, portions of the  
 80 periphery of said roller being cut away and blades integral with said roller within the recessed end of same, substantially as set forth.

9. In a lubricating device for car-axle journals, the combination of a suitable support  
 85 and a lubricating-roller journaled on said support, the said roller having a recessed side and blades located within said recess and projecting beyond the periphery of the roller, substantially as set forth. 90

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

HENRY GALLAGER.

Witnesses:

WILLIAM BREWIN,  
 A. S. DELANNOY.