

G. A. BRANNAN.

Improvement in Lubricators for Car-Axles.

No. 130,470.

Patented Aug. 13, 1872.

Fig. 1.

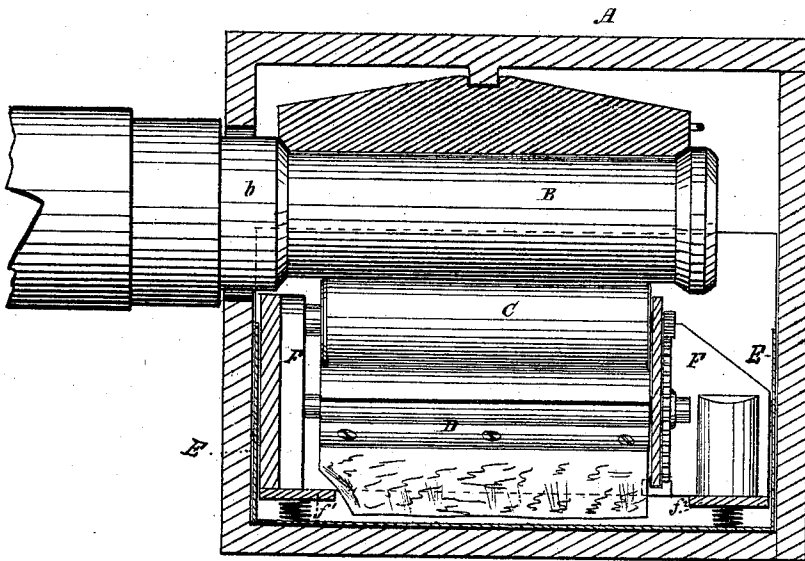


Fig. 3.

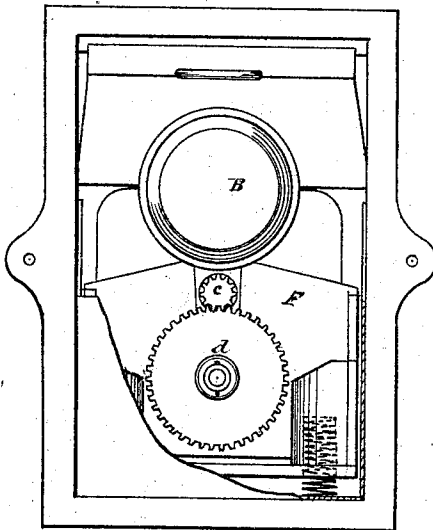
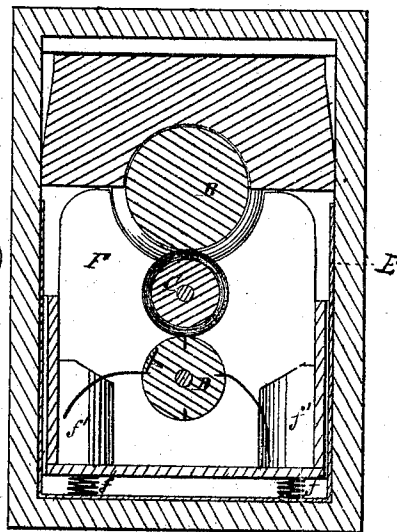


Fig. 2.



Witnesses.

Edwin J. McClain,
John Williams

Inventor.

George A. Brannan
by
S. M. Wool

UNITED STATES PATENT OFFICE.

GEORGE A. BRANNAN, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN LUBRICATORS FOR CAR-AXLES.

Specification forming part of Letters Patent No. 130,470, dated August 13, 1872.

Specification describing means for Lubricating Car-Axle Journals, invented by GEORGE A. BRANNAN, of Baltimore city, in the county of Baltimore and State of Maryland.

The invention consists in lubricating the journal of a car-axle by means of two felt-covered rolls, one of which has said felt in arc-flaps which dip into the oil-reservoir, and receives its motion through the medium of spur-gears from the upper felt-covered roll which is driven by frictional contact with the car-axle journal.

Figure 1 is a longitudinal section of journal-box, and Figs. 2 and 3, transverse sections.

A represents the journal-box, and B the journal. C is a roll covered with felt, while D is another roll provided with two or more absorbent arc-flaps, of felt or analogous material. *c d* are spur-wheels which connect and enable the rolls to work together. E is the oil-vessel, and F the roller-frame supported upon springs *f*, which are fastened in sockets *f*¹. These sockets and the upright bearings rest upon the cross-pieces *f*² *f*². The

frame is also made to fit snugly up to the journals against the annular projection *b*.

The mode of operation is as follows: As the car-axle revolves the felt-roll C, being pressed into contact therewith by springs *f*, is rotated by friction. By means of the spur-wheels *c d* the roll D is turned and caused to dip its flaps in the oil of box E. As the rotation continues the flaps on roll D oil the felt-surface of roll C, which in turn lubricates the journal B. Thus is produced a gradual and uniform lubrication without any waste of the oil.

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

The combination with journal B of the felt-covered roll C, flap-roll D, and spur-gears *c d*, as and for the purpose described.

GEO. A. BRANNAN.

Witnesses:

M. R. WALTER,
JAS. R. BRANNAN.