(No Model.)

S. W. DOANE.

APPARATUS FOR COOLING CAR AXLES.

No. 261,689. Patented July 25, 1882.

Fig. 1.

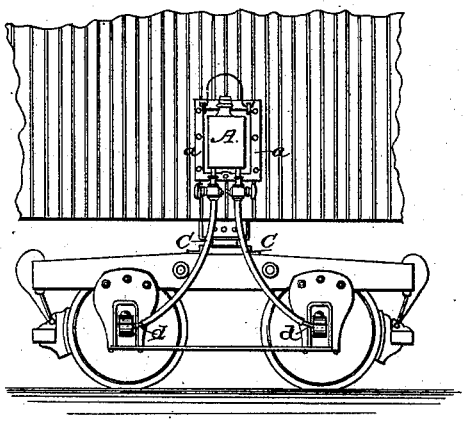


Fig. 2.

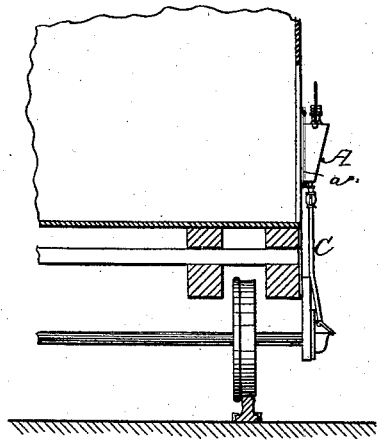


Fig. 4.

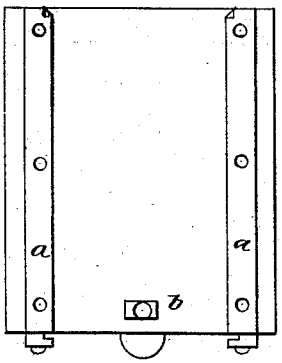


Fig. 5.

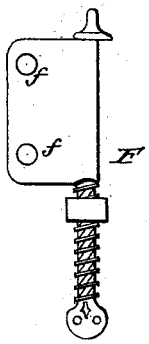


Fig. 6.

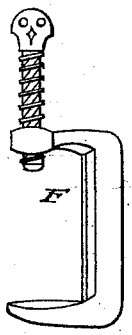
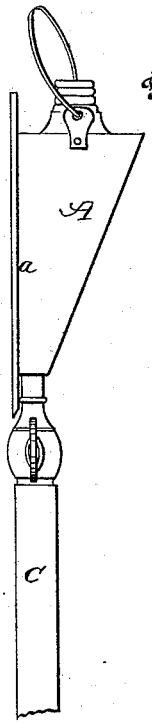


Fig. 3.



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APPARATUS FOR COOLING CAR-AXLES.

SPECIFICATION forming part of Letters Patent No. 261,689, dated July 25, 1882.

Application filed June 2, 1882. (No model.)

Be it known that I, STEPHEN W. DOANE, a citizen of the United States, residing at Hornellsville, in the county of Steuben and State of New York, have invented certain new and useful Improvements in Apparatus for Cooling Car-Axles; 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.

This invention relates to certain new and useful improvements in apparatus for cooling car-axles; and the invention consists in novel features of construction and combination of parts, all as will be hereinafter fully described, and set forth in the claims hereto annexed.

Referring to the accompanying drawings, Figure 1 represents a front elevation of a car, showing my improvement applied thereto. Fig. 2 is a side view of the apparatus as applied to a car. Fig. 3 is an enlarged side view of the same. Fig. 4 represents grooved slats connected to the side of the car by which the apparatus may be connected to the side of the car; Fig. 5 and 6, detailed views to be hereinafter referred to.

In the drawings, A represents the tank or reservoir, of any suitable form for containing any desired amount of water to be applied to the axles, and constructed to be detachably secured to the side of a car by side flanges adapted to move in side grooves formed by slats *a a*, connected to the sides of a car or a board which can be detachably secured to the car in any suitable manner, or, instead thereof, between headed screws or nails secured to the sides of the car or board, and a bolt or nut, *b*, so arranged on the side of the car or board as to regulate the descent of the tank or reservoir.

C C represent two pieces of small-sized rubber hose, having metallic ends *d d*, and stop-cocks to regulate the amount of water to be kept running or dropping on the hot axles.

Figs. 5 and 6 represent edge and side views of a screw attachment, F, to be connected to the edge of the axle-box, arranged at the ends of the axles, whereby the ends *d d* of pipes C are held in position when placed in the holes formed in the boxes for their reception, and guided so that the water can be made to drip at the point desired.

The tank or reservoir can be made as shown in Fig. 3, or in any manner whereby less room is taken up, while not projecting so far from the car. The tank or reservoir is provided with a bail for the purpose of carrying it, and also with a suitable cover, so that when open the tank may be filled with water. The tank or reservoir can be filled and kept filled with water and carried in the caboose, so that in the event of a hot axle it can be applied and adjusted in position at once and the train put in motion.

The tank may be provided with hooks and suspended from the ladders in that class of cars which have them arranged near the corners thereof and leading to the roof, thereby obviating the use of the fastening devices before described.

I am aware that liquids of various kinds have been used for cooling journals of railroad-vehicles, and that these have been applied, or have been rendered capable of being applied, when such vehicles have been in motion, and hence I do not claim broadly such application.

What I claim as my invention, and desire to obtain by Letters Patent, is—

1. In an apparatus for cooling car-axles, a tank or reservoir adapted to be detachably secured to the side of a car, and provided with stop-cocks and with rubber hose having metallic tips or ends which pass through holes in the axle-boxes for supplying water to the axles, substantially as and for the purpose specified.

2. In an apparatus for cooling car-axles, a tank or reservoir adapted to be detachably secured to the side of a car, and provided with stop-cocks and with rubber hose having metallic tips or ends, and screw-attachments for holding said tips or ends at any suitable point, substantially as and for the purpose specified.

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

STEPHEN W. DOANE.

Witnesses:

JOSEPH K. BROWN,

JAMES L. WEBB.