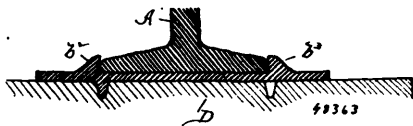


wheel or roller located in such position with respect to the main wheel as to be off of the ground and extend above the plane of the load-supporting surface of the truck when the latter is horizontal, the shaft or bearings of said supplemental wheel being movable with respect to the primary wheel to permit such supplemental wheel to come into peripheral contact with the primary wheel, substantially as set forth. 2nd. In a truck, in combination with the frame, the load-supporting wheels journaled on the frame above or forward of the truck supporting-wheels, the shoe pivotally connected to the frame and adapted to project forward of the load-supporting wheels when the truck is upright, and in tilting back toward the truck, to describe by its forward edge or point an arc outside the load-supporting-wheels, and adapted to stop against the frame behind or above said load-supporting-wheels, with its edge or point standing above or forward of a plane tangent to the load-supporting-wheel and extending to part of the load-supporting surface of a truck whereby such shoe may operate as a detent dog or pawl to prevent the down-sliding of the load, substantially as set forth. 3rd. In combination with the truck frame and the load-supporting-wheels journaled above or forward of the truck-supporting-wheels and having their bearings or supporting shaft movable in the truck frame to permit the load-supporting wheels to come into peripheral contact with the truck-supporting wheels, a shoe pivotally connected to the frame and adapted to tilt from its forward or load engaging position behind or above the load-supporting wheels, and stopped on the frame in such backward tilting movement with its edge or point standing above or forward of a plane tangent to the load-supporting wheels and extending to the upper part of the truck, whereby said edge of the shoe constitutes a fulcrum over which the load may be tilted to take it off the load-supporting wheels to relieve the truck-supporting wheels of the friction of the latter, substantially as set forth. 4th. In combination, with the truck frame, the truck-supporting wheels journaled thereon, the load-supporting wheels also journaled on the frame forward of or above the truck-supporting wheels, said wheels having ratchet rims, pawls pivoted on the frame adapted to engage said rims respectively, and the spring L having two arms which operate against the pawls respectively, said pawls having a path on which the spring bears, extending both sides of the fulcrum of the pawl, and a rod from said spring extending up to the handle end of the truck, whereby the springs may be adjusted to bear against the pawls at either side of their fulcrums to hold them into or out of engagement with their ratchets respectively at will, substantially as set forth. 5th. In combination, with the truck frame, the truck supporting wheels journaled thereon, the load-supporting wheels also journaled on the frame forward of or above the truck-supporting wheels, said wheels having ratchet rims, pawls pivoted on the frame adapted to engage said rims respectively, and the spring L having two arms which operate against the pawls respectively adapted to be shifted at will past the fulcrums to hold them in or out of engagement with the ratchets respectively, and a rod from said spring extending up to the handle end of the truck, substantially as set forth. 6th. In a truck frame, comprising the wheel bearing brackets C, C, provided with seats or sockets at their upper ends for the longitudinal bars, the handle or side-bars A, A, and the bow B, having their ends lodged in such seats respectively, and the cross-bars D and D¹, and the supplemental bars D², and bolts extending through said cross-bars and supplemental bars at the seats of the tubular bars in the brackets, substantially as set forth. 7th. In combination, with the wheels-supporting brackets and the tubular handle-bars secured thereto, the wheels journaled in said brackets, and the pawl and ratchet devices pertaining thereto, the pawl actuating springs and the rods by which said springs are adjusted on the pawls extending up through the tubular bars and emerging at the handle end, substantially as set forth.

No. 48,363. Tie Plate.

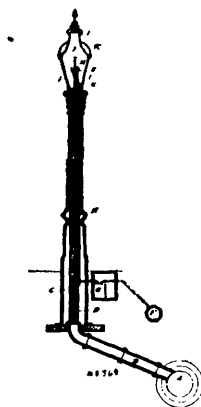
(Plaque pour traverses de chemin de fer.)



David Servis, Toledo, Ohio, U.S.A., 7th March, 1895; 6 years.

Claim.—1st. A railway tie plate provided on its under side with two continuous or unbroken ribs arranged to extend across the grain of the tie when in position thereon, neither of said ribs extending entirely the width of the plate and said ribs being out of longitudinal alignment with each other, substantially as described. 2nd. A railway tie plate provided on its under side with two ribs arranged to extend across the grain of the tie when in position, said ribs located diagonally opposite each other, so that they enter the tie in different longitudinal portions, substantially as described. 3rd. A railway tie plate provided on its under side with two ribs arranged to extend across the grain of the tie when in position thereon, said ribs being diagonally opposite each other and substantially under the edges of the rail base, said tie plate also provided with spike holes arranged diagonally opposite to each other and to the ribs, substantially as described.

No. 48,364. Method of Extracting and Destroying Sewer Gas. (Destruction de gaz d'égouts.)



Joseph Edmund Webb, Hockley, Birmingham, England, 7th March, 1895; 6 years.

Claim.—1st. The improved method of extracting and destroying sewer gases consisting in drawing them into a lamp head by means of burning gas jets and there burning or submitting them to a high temperature before permitting them to pass to the atmosphere, substantially as described. 2nd. In apparatus for extracting and destroying sewer gases, the combination of a pipe connecting the sewer with a lamp hermetically sealed except at the top, and burners in said lamp, all substantially as described. 3rd. In apparatus for extracting and destroying sewer gases, the combination of a pipe connecting the sewer with a lamp, burners in said lamp and a lamp head adapted to radiate the heat toward the point of combustion, substantially as and for the purpose set forth. 4th. In apparatus for extracting and destroying sewer gases, the combination of a pipe connecting the sewer with a lamp, burners in said lamp and a lamp head adapted to radiate the heat toward the point of combustion and an external non-heat radiating chamber partially surrounding the lamp head, substantially as set forth.

No. 48,365. Trolley Wheel. (Roue de trolley.)

