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UNITED STATES PATENT OFFICE.

ADRIAN T. LOTT, OF COLDWATER, MISSISSIPPI, ASSIGNOR TO HIMSELF AND JOHN L. GATTI, OF SAME PLACE.

CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 332,617, dated December 15, 1885.

Application filed March 14, 1885. Serial No. 158,930. (No model.)

To all whom it may concern:

Be it known that I, ADRIAN T. LOTT, of Coldwater, in the county of Tate and State of Mississippi, have invented a new and Improved 5 Car-Coupling, of which the following is a full, clear, and exact description.

My invention relates to car-couplings, and has for its object to prevent injury to the train-men in coupling, uncoupling, or switch-10 ing cars, and to save time and labor in operating railways. The invention consists in a car-coupling comprising a draw-head provided with a pivoted and spring-pressed coupling-plate having an inclined downward-15 ly-projecting hook, allowing automatic coupling of the cars, together with a screw-rod adapted to be operated from the top of the car, so as to tilt the coupling-plate to lift its hook for uncoupling the cars, said rod having 20 stop nuts or collars to limit its movements both ways, all as hereinafter fully described | ing cars on sidings of the track. Stop-nuts and claimed. Reference is to be had to the accompanying drawings, forming part of this specification, 25 in which similar letters of reference indicate corresponding parts in both the figures. Figure 1 is an end view of an ordinary boxcar with my improved coupling applied, and Fig. 2 is an enlarged sectional side elevation 30 of the coupling and a portion of the car. The letter A indicates the draw-head of my improved car-coupling, and a is the socket or recess of the draw-head, which is open at the top, and in which is pivoted on a heavy pin 35 or bolt, B, the coupling-plate C, which is provided with a hook or tongue, c, which projects downward and backward from the front part of the plate C, and so the back edge or face of the hook c ranges about parallel with 40 the front inclined face, d, of a heavy lug, D, fixed to and pendent from the plate C, below the pivot-pin B of the plate, so that a space, E, is provided between the hook c and the lug D, into which the end f of a coupling-link, \mathbf{F} , 45 may enter. Between the under side of the back end of the coupling-plate C and the floor of the drawhead socket a is placed a spring, G, preferably of spiral form, and which acts by its exhence the train-men do not stand between the 50 pansion to force the coupling-hook c downward toward the floor of the link-socket. The I cars and expose themselves to injury; and my

lug D prevents the link F striking and injuring the spring G.

The draw-head A is supported on the carbody H by a metal-frame bar, h, in which the 55 draw-head has lateral play when the car is rounding curves of the track, and the drawhead will be provided with a buffer spring or springs of any approved construction, to ease the shocks in coupling the cars. To the draw- 60 head is fixed the arm I, which has a threaded end collar or bearing, i, in which is fitted the threaded lower end, j, of a rod or bar, J, which extends upward to the top of the car, and has a hand-wheel, K, by which it may be turned 65 to carry the lower end of bar J downward to tilt the plate C and lift its coupling-hook c above the end f of link F for uncoupling the cars, or for preventing the coupling of cars backed together when shunting them about 70 the yard in making up trains, or while push-L M are run on the threaded end j of rod J, one above and the other below the bearing i, to limit the up and down movements of the 75 rod. When the rod J is moved up to the position shown in Fig. 1 and in full lines in Fig. 2, so the stop-nut M contacts the bearing *i*, the spring G forces the coupling-hook downward, and as the draw-head is about 80 to couple with the link held to another car the end of said link will strike the inclined forward face of the hook c and tilt the coupling-plate C upward at the forward end, so the end of the link may pass behind the hook and 85 between it and the lug D of the plate, whereupon the spring G will force the hook c down in front of the end of the link and complete the coupling. To uncouple the cars, the rod J is to be 90 turned down to raise the coupling-hook c, as before stated, and as indicated in dotted line in Fig. 2. By using straight or bent links F cars whose draw-heads stand at equal or unequal 95 heights may readily be coupled or uncoupled by the use of my improvement. It is evident that the cars may be uncoupled from their tops by operating the hand-wheel

K while the cars are at rest or in motion; 100

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improvement also saves time and labor in operating railways, as the train-man may first uncouple the moving cars by turning down the rod J, then he may turn the rod back or 5 upward again to provide for coupling automatically with another car or with the engine, and then he may operate the hand-wheel N of the brake-shaft O, to put on the brakes as the car runs or is pushed by the engine to to couple with any other car of a train; hence the uncoupling, switching, and recoupling of the car may be controlled by a single man, the hand-wheels K N being quite close together, so the coupler and brakes may be op-15 erated conveniently, as will readily be under-

1. In a car-coupling, the combination, with 20 the draw-head A and pivoted and springpressed coupling-plate C, having a hook, c, substantially as specified, of the arm I i and the screw-rod J, extended to the top of the car, substantially as herein specified. 25

2. In a car-coupling, the combination, with the draw-head A, pivoted and spring-pressed coupling-plate C, having hook c, the arm I i, and screw-rod J, of the stop nuts or collars L N on rod J, substantially as herein set forth.



stood.

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

Witnesses: L. W. WYNNE, G. A. THORNTON.

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