-

.

No. 15,997.

Car Coupling.

.

Patented Oct. 28, 1856.

LYNAHON & WING.



<u>ار</u>

-



N. PETERS, Photo-Lithographer, Washington, D. C.

· · · · · ·

## UNITED STATES PATENT OFFICE.

D. LYNAHON AND C. J. WING, OF BUFFALO, NEW YORK, ASSIGNORS TO D. LYNAHON.

RAILROAD-CAR COUPLING.

Specification of Letters Patent No. 15,997, dated October 28, 1856.

To all whom it may concern:<br/>Be it known that we, D. LYNAHON and<br/>C. J. WING, of Buffalo, in the county of Erieand the shackle has two holes or rings, e, e, 55<br/>formed in it to receive the pins. The shac-<br/>kle may be formed of a single piece of metal and State of New York, have invented a with the holes, e, cut through it, or they may be formed of rods with rings attached to do hereby declare that the following is a them, as shown in Fig. 2. 60 full, clear, and exact description of the same, Within the bumpers A, A, and directly reference being had to the annexed drawback of the cross bars C, there are attached ings, making a part of this specification, in springs F, F, one at each side. These springs curve inward toward each other and their outer ends meet or nearly meet when 65 Figure 1 is a longitudinal vertical section of our improvement. Fig. 2 is a horizontal the shackle is not in the bumpers. section of one of the bumpers. By showing the shackle in one of the Similar letters of reference indicate corbumpers, the inclined planes d, d, will raise the cross bar C, and the inclined planes will The nature of our invention consists in pass behind it the cross bar falling in con- 70 having the ends of the bumpers of each car sequence of the spring b, directly back of enlarged and having in each enlarged end the inclined planes and holding the shackle a cross bar to which a vertical pin is atin the bumper, the lower end of the pin D, passing through one of the rings or holes, e, slots in the sides of the enlarged parts of into the hole, c, in the lower part of the box 75 the bumpers, and the pins above mentioned B. The springs F, F, keep the shackle in a are encompassed by springs which keep the horizontal position so that the opposite or cross bars depressed or forced down upon outward end of the shackle may be in a proper position to pass into the bumper of planes at their ends, the catches or inclined an adjoining car when brought up to it. 80 planes being back of the cross bars when the The device therefore couples itself and the bumpers are connected as will be presently disconnection is readily effected by drawing shown and described. upward either of the pins and cross bars To enable others skilled in the art to fully by hand. understand and construct our invention, we By the above improvement the cars may 85 will proceed to describe it. be readily connected and disconnected and A, A, Fig. 1, represent the bumpers of without danger, as there is no occasion for two cars, each bumper at its outer end has a person to pass between the cars in order to adjust the pins D. the sides of which slots, a, a, are made, one The device is simple, not liable to get out 90 in each side, as shown clearly in Fig. 2. In of repair, and not expensive to manufaceach box B, there is placed a cross bar C, ture. the ends of which fit or work in the slots a. Having thus described our invention, what we claim as new and desire to secure by as shown in Fig. 1. Letters Patent, is, 95 D, are vertical pins which pass through The construction of the coupling as herethe cross bars C, at their center, one pin to in shown, viz. having the cross bars C, with each cross bar. These pins pass through | pins D, attached, and encompassed by 45 the upper or top part of the boxes B, and springs, b, the bars and springs being placed in the boxes B, as described and the shackles 100 have spiral springs, b, around them between the undersides of the top pieces of the boxes E, formed with inclined planes, d, d, at their ends for the purpose set forth. and the upper surfaces of the cross bars. The lower ends of the pins pass through D. LYNAHON. 50 apertures, c, in the lower parts of the boxes. CHAS. J. WING. E, represents the shackle which has two inclined planes d, d, at each end. The in-Witnesses: clined planes are at suitable distances apart GEO. BURROWS, so that they can pass each side of the pin D, HORACE WING, Jr.

5 new and Improved Car-Coupling; and we 10 which—

15 responding parts in the two figures.

20 tached. The ends of the cross bars work in

- 25 the shackles which have catches or inclined
- 30
- 35 an enlargement or a rectangular box B, in 40 The front sides of the cross bars are rounded

