

(No Model.)

A. RICE.  
CAR COUPLING.

No. 260,124.

Patented June 27, 1882.

Fig. 1.

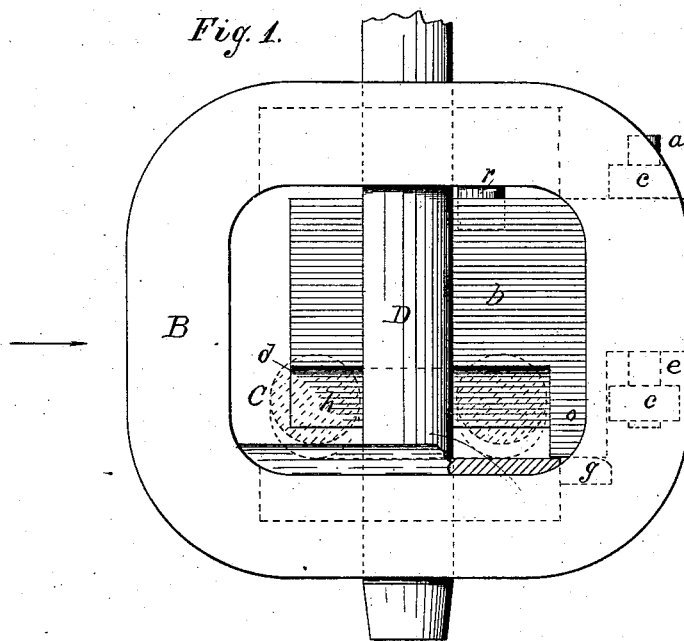
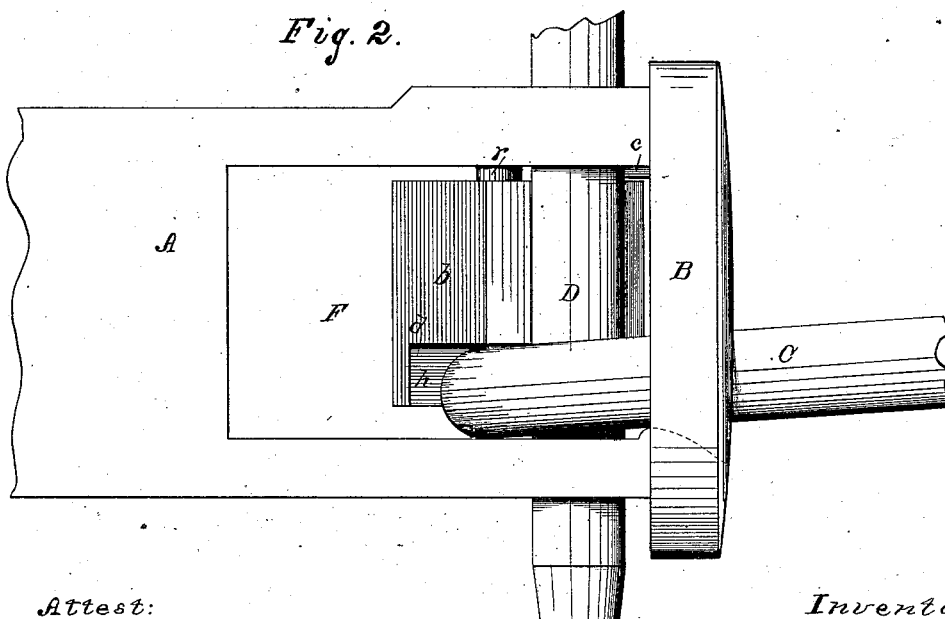


Fig. 2.



Attest:

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# UNITED STATES PATENT OFFICE.

ALVAH RICE, OF ROCHESTER, NEW YORK, ASSIGNOR OF ONE-HALF TO  
STEPHEN WHEELER, OF SAME PLACE.

## CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 260,124, dated June 27, 1882.

Application filed April 25, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, ALVAH RICE, of Rochester, in the county of Monroe and State of New York, have invented a new and useful  
5 Improvement in Car-Couplers, which improvement is fully set forth in the following specification and accompanying drawings.

This invention is designed as an improvement upon my invention patented April 25,  
10 1882; and it consists in providing an improved form of gate, which is hereinafter fully described.

Referring to the drawings, Figure 1 is a front end elevation of an ordinary bumper for cars with my improved gate attached; and  
15 Fig. 2, a side elevation of the same, viewed as indicated by the arrow in Fig. 1.

In the figures, A is the body of a draw-bar or bumper; B, the bumper-ring; C, a coupling-link; D, the pin, and F the lateral opening in the bumper-head.

*b* is the gate, hung at the rear surface of the ring B, at one side of the head, so as to be swung laterally into the opening F, in the same manner as that shown in the patent  
25 above mentioned. The gate is the same as the one therein shown and described, with the addition of the curtain or downward projection *h* and the friction-piece *r*, which two additions  
30 or features constitute this present invention. The gate is hung upon a pin, *a*, passed vertically through the same and through projections *c c* at the back surface of the bumper-ring, and a part of the gate, at *e*, immediately  
35 above the lower projection, *e*, is cut away in order to permit said gate to be moved vertically upon its hinge. The downward-projecting part *o* of the gate rests upon the floor of the head when said gate is swung within the  
40 head, as shown, and the said part *o* rides upon the said floor and the projecting part or ledge *g* (shown in dotted lines) at the side of the head, as shown and set forth in the patent above mentioned.

The gate is designed to be swung into the head for the double purpose of holding the pin  
45 up out of the way of an approaching link, or of holding the link in position, as shown, to enter an approaching bumper-head in the act  
50 of coupling, as set forth in the aforesaid patent.

The notch *d*, formed in the lower edge of the gate, allows the latter to pass partly over the end of the link, as shown, when the link

is to be held in position to enter the bumper-head of an approaching car to be coupled therewith. When the gate and link occupy the position shown the curtain *h* rests against the extreme end of the link, on account of  
60 which, when the link is forced back by the approaching car, the gate will be swung back out of the head, because of the end of the link pressing against the curtain, and the possibility of the link becoming wedged under the gate is avoided.

A simple friction-piece, *r*, is inserted in the upper edge of the gate, as shown, which, rubbing against the upper plate of the head, forms a tension for the gate when swung within the head. This piece *r* may be of india-rubber,  
70 wood, or other suitable material, and it serves to steady the gate and prevents its becoming displaced by any jarring of the car after being adjusted to place, as and for the purpose above set forth.

I claim as my invention—

1. The bumper-head A of a car-coupling device, provided with a bumper-ring, B, projecting laterally from the side of the bumper-head, and a gate, *b*, hung to said bumper-ring  
80 side of the head and in such a manner that it may be swung into the opening F of the bumper-head, said gate being provided with the downward projection *h*, substantially as and for the purpose set forth.

2. In combination with the bumper-head A of a car-coupling device, having an opening, F, a link, C, and pin D, a gate, *b*, hung at one side of the head and so as to be swung into or out of the opening F, said gate being provided  
90 with a friction-piece, *r*, to bear against the head, substantially as shown, and for the purpose set forth.

3. The open bumper-head A of a car-coupling device, provided with a projecting bumper-ring, B, and a gate, *b*, hung to said bumper-ring at the rear side thereof and in such a manner that it may be swung into the opening F of the bumper-head, said gate being provided with the curtain or downward-projecting part *h* and friction-piece *r*, to bear against the head for the purpose of forming a tension for the gate, substantially as shown, and for the purpose set forth.

ALVAH RICE.

Witnesses:

E. B. WHITMORE,  
M. D. PHILLIPS.