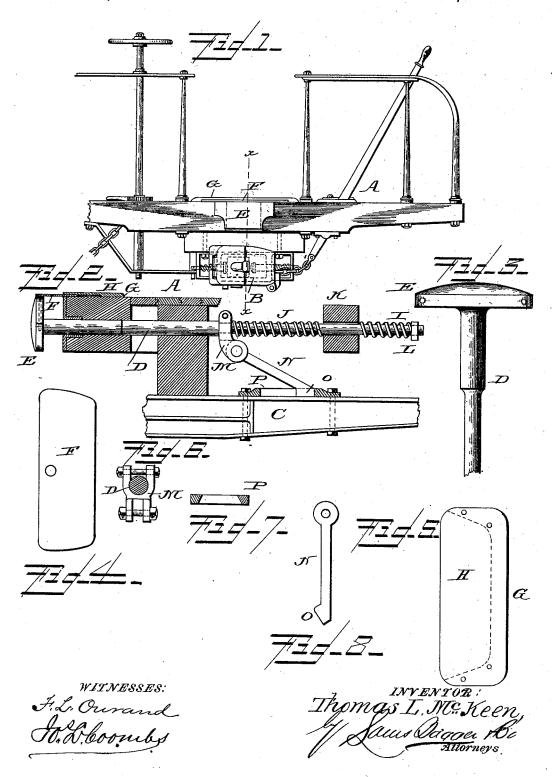
## T. L. McKEEN. BUFFER FOR RAILWAY CARS.

No. 490,977.

Patented Jan. 31, 1893.



## UNITED STATES PATENT OFFICE.

THOMAS L. MCKEEN, OF NEW YORK, N. Y., ASSIGNOR TO ISAAC G. JOHNSON & CO., OF SAME PLACE.

## BUFFER FOR RAILWAY-CARS.

SPECIFICATION forming part of Letters Patent No. 490,977, dated January 31, 1893.

Application filed July 15, 1892. Serial No. 440,104. (No model.)

To all whom it may concern:

Be it known that I, THOMAS L. MCKEEN, a citizen of the United States, and a resident of New York, in the county of New York and 5 State of New York, have invented certain new and useful Improvements in Buffers for Railway-Cars; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others 10 skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which-

Figure 1 is a front elevation of the coup-15 ling and platform of a passenger coach equipped with my improved buffer; Fig. 2 is a longitudinal sectional view of the same through the vertical plane denoted by the broken line marked x-x; Fig. 3 is a view of 20 the buffer, removed from the platform; Fig. 4 is a plan of the movable or false platform secured to and working with the buffer; Fig. 5 is a plan view of the protecting shield or guard-plate which overlaps the false or mov-25 able platform; Fig. 6 is a section through the stem of the buffer-head; Fig. 7 is a similar view through the slotted plate secured to the draw bar; and Fig. 8 is a detail view of the

Like letters of reference denote correspond-

ing parts in all the figures.

push-rod.

This invention relates to buffers or bumpers for railway cars, and has for its object to utilize the buffer as a support for a false or 35 movable platform which acts in the nature of a bridge (or part of a bridge) to span the open space between the platforms of adjoining cars. In my application Serial No. 435,773, I have described and claimed a somewhat simi-40 lar device as applied to the improved buffer for which Letters-Patent of the United States No. 302,512, were granted to me under date of July 22, 1884, and my present invention consists in the novel construction and com-45 bination of parts hereinafter more fully described and claimed.

Referring to the drawings, the letter A designates one of the platforms of a passenger coach equipped with my improvement, and 50 B denotes the coupling, which may be of any ward with a positive movement.

approved style or pattern. The platform is recessed above and in line with the drawhead C of the coupling to make room for the stem, D, of the buffer-plate or head E; suitable springs I and J being provided for keeping 55 the buffer-head projecting normally some distance in front of and beyond the platform.

To the upper side of, and at right angles to, the buffer-head E is fastened a plate, F, which projects inwardly and horizontally above and 60 in alignment with the platform A, upon which its free or inner end rests and slides. This sliding plate F constitutes the false platform or buffer-bridge, and is covered at its free end, overlapping the fixed platform A, by the 65 guard-plate G, the inner end of which, where it is bolted upon platform A, is made with a shoulder, H, so as to leave an open space between it and the platform for the insertion and free movement of the movable platform 70 F, as will appear more clearly by reference to Fig. 2 of the drawings.

The rear end of the stem D passes through a guide-block K, secured to the car platform and is provided with a head L, against which 75 the spring I abuts. The other spring J, is confined between the block K, and a plate M, secured to the stem D. Pivoted to this plate is an inclined push-rod N, having a dovetailed foot O, which slides in a correspond- 80 ingly shaped groove or slot in a plate P, bolted to the draw-bar of the coupling. From this it will be seen, that when the cars come together, with the buffer-heads of opposite platforms abutting against each other, a continuous 85 bridge or platform is formed by the adjacent false or movable platforms F, spanning or bridging the open space between adjacent cars. As the buffers yield, the false plat-forms will yield with them, sliding under 90 their respective guard-plates G, so that at all times a safe bridge-connection will be formed between the several cars making up a train.

It will be noted that when the drawbars are pushed in, the rod N will slide in the slot in 95 plate P without moving the buffer-head, but when the drawbars are pulled out, the foot O will strike the rear wall of said plate, and cause the bar to pull the buffer-heads out-

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ent of the United States:

The combination of the stationary plat-5 form and draw-bar, the buffer for sliding in a recess below the same, between it and the coupling, the shouldered guard-plate, and the false platform secured to the top of the buffer-head, and projecting rearwardly into the 10 recess between the underside of the guardplate and the top of the stationary platform; the springs, the plate connected with the buf-

Having thus described my invention, I | fer, and the push-rod connected therewith claim and desire to secure by Letters - Pat- | and sliding in a slot in the plate secured to the drawbar, substantially as and for the pur- 13 pose set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

THOMAS L. MCKEEN.

Witnesses:

T. F. HASCALL, M. C. HASCALL.