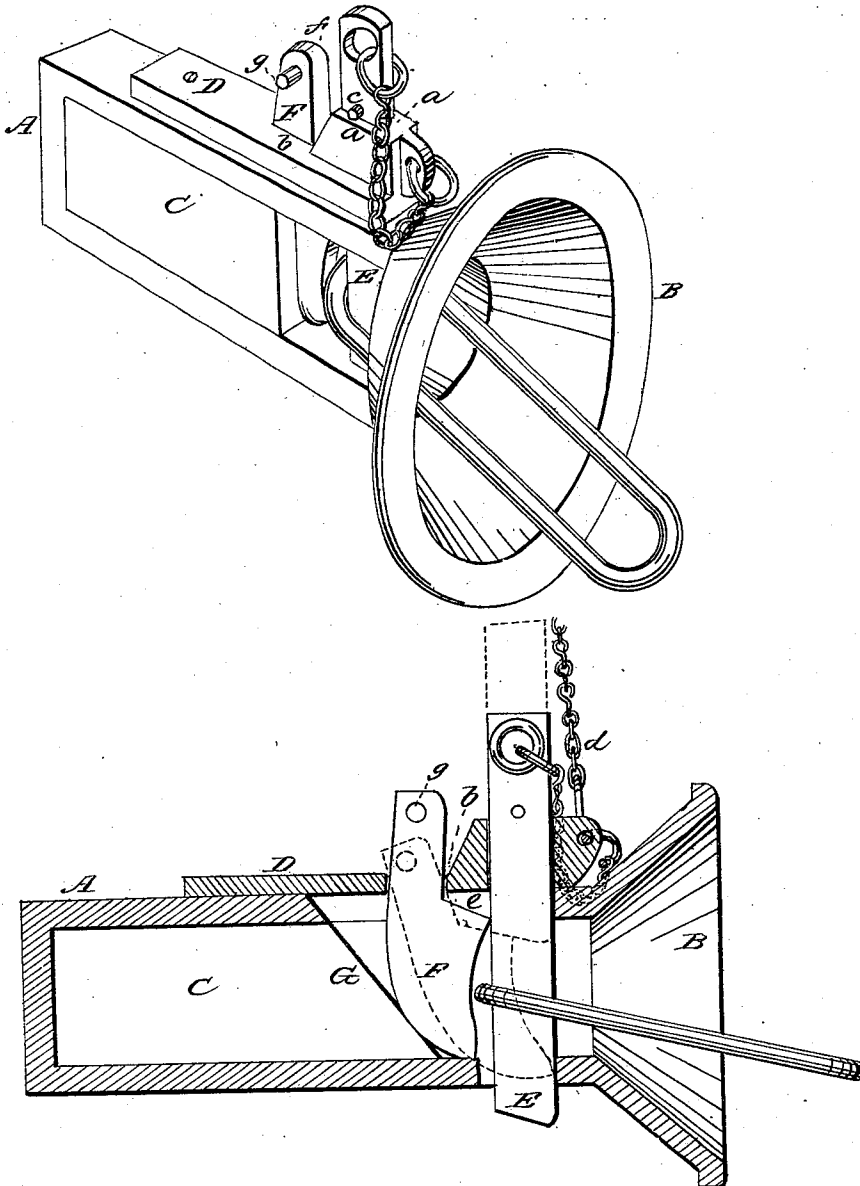


J. C. WILSON.

Car Coupling.

No. 95,546.

Patented Oct. 5, 1869.



Witnesses:

H. F. Everts
Jas. B. Day

Inventor:

J. C. Wilson
Per Attorney
M. S. Sprague

UNITED STATES PATENT OFFICE.

JOSEPH C. WILSON, OF APPLETON, WISCONSIN.

IMPROVED RAILWAY-CAR COUPLING.

Specification forming part of Letters Patent No. 95,546, dated October 5, 1869.

To all whom it may concern:

Be it known that I, JOSEPH C. WILSON, of Appleton, in the county of Outagamie and State of Wisconsin, have invented new and useful Improvements in a Car-Coupling; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, and being a part of this specification, in which—

Figure 1 is a perspective view of my device after coupling. Fig. 2 is a side elevation of the same, partially in section, showing the positions of the various parts before coupling.

Like letters indicate like parts in each figure.

The nature of my invention consists in constructing the ordinary draw-head and cheeks or filling in the peculiar manner hereinafter described, and fitting a sliding tumbler, which has a curvilinear back and a nearly horizontal shoulder and stop formed on it, to said draw-head, in the manner hereinafter specified.

By my invention I am enabled to use the sliding tumbler for holding up the coupling-pin until it is automatically released, in connection with the ordinary draw-head after the slight changes in its construction, hereinafter described, have been made. Thus I can at a slight cost apply my invention to draw-heads now commonly used on railroad-cars, whereas in other cases where sliding tumblers have been proposed radical changes in the construction of the draw-head are necessary, and either new draw-heads are required to be made or very great expense must be incurred to adapt the old style to the use of sliding tumblers.

A in the drawings represents an ordinary draw-head, provided with the usual bell-mouthed bumper, B. C are the usual cheeks or filling of wood placed between the upper and lower bars of the draw-head. On the upper side of the draw-head I place a bar or plate, D, made of either wrought or cast metal, and provided with two slots, *a* and *b*, through the former of which passes the coupling-pin E, which should conform to it in shape. The pin E is prevented from falling down through and out of the slot by a pin, *c*, passing through it near its upper end, which

stops it at the proper point in its descent, and to prevent it from being withdrawn and lost I attach to its head a chain, *d*, whose other end is secured to the head of the plate D, and which chain is of but sufficient length to allow the pin to be raised until the shoulder *e* of the dog F can drop under and sustain it. This dog F is curved on the rear side, as shown, and works between the cheeks C and in the slot *b*, through which its head *f* projects, and through which passes a pin, *g*, to arrest its descent through said slot, while its lower end, when it drops down, passes into the slot in the lower bar of the draw-head occupied by the coupling-pin when it drops to couple. The dog moves against and on an inclined plane, G, which should be of metal, placed between the cheeks C, and, commencing at the back (of the slot *b*, extends downward and forward to the bottom bar of the draw-head, so that the weight of the dog will always cause it to drop into the position shown in Fig. 2 when the coupling-pin is raised, when its shoulder *e*, coming under the slot *a*, forms a support for the said pin, which will be thus sustained until the link projecting from the draw-head of another car enters the draw-head, when it will force the dog up the inclined plane, withdrawing its shoulder from under the coupling-pin, which will then drop through the link into the slot in the lower bar of the draw-head, when the coupling is effected.

This device is not only simple in design and operation, but can be readily applied to the draw-heads of ordinary construction at a very small cost.

What I claim as my invention, and desire to secure by Letters Patent, is—

The draw-head A, with its cheeks or filling C, constructed with the incline G, and having the tumbler F *e* fitted to it and confined loosely in proper relation to the coupling-pin, so as to operate as set forth, all substantially as described.

JOSEPH C. WILSON.

Witnesses:

HENRY D. RYAN,
WILLIAM S. WARNER.