(No Model.)

L. D. KEMERER.

CAR COUPLING.

No. 326,040. Patented Sept. 8, 1885.

Fig. 1.

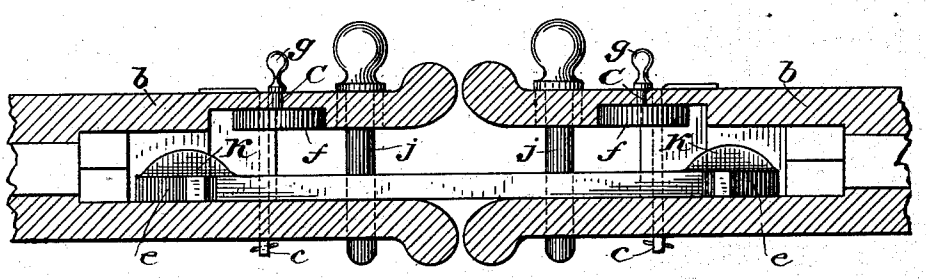


Fig. 5.



Fig. 2.

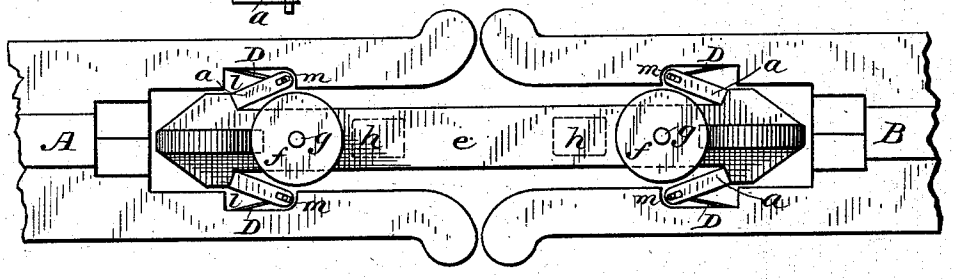


Fig. 3.

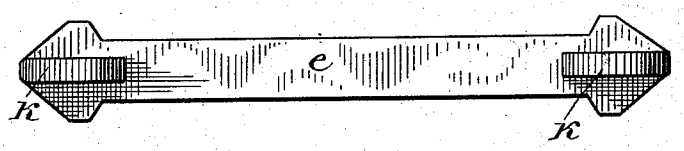
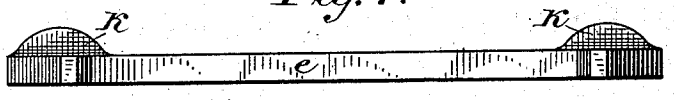


Fig. 4.



Witnesses.

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UNITED STATES PATENT OFFICE.

LORENZO D. KEMERER, OF SCRANTON, PENNSYLVANIA.

CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 326,040, dated September 8, 1885.

Application filed January 26, 1885. (No model.)

To all whom it may concern:

Be it known that I, LORENZO D. KEMERER, a citizen of the United States, residing at the city of Scranton, in the county of Lackawanna and State of Pennsylvania, have invented certain new and useful Improvements in Self-Coupling Draw-Heads, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to improvements in self coupling draw-heads, in which coupling-jaws forced toward each other by springs operate in conjunction with a coupling having enlarged ends and a disconnecting wheel or button; and the objects of my invention are, first, to secure rapidity in coupling and uncoupling cars without risk or danger to life or limb, and permit operation to be performed either with cars of the same or different heights; second, to afford means for the proper adjustment and replacing of the several parts, when worn or broken, at a comparatively small cost and least expenditure of labor. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side view of the draw-head. Fig. 2 is a top view thereof. Fig. 3 is a top or plan view of the coupler, and Fig. 4 a side view thereof. Fig. 5 is a view in detail of the coupling-jaw, spring, and pin.

Similar letters refer to similar parts throughout.

a a are the coupling-jaws, held in the draw-head *b b* by means of pins *c c*, passing downward through the draw-head and coupling-jaws and through springs *d d*, which hold or force the coupling-jaws toward each other. The coupling *e*, upon being placed in the draw-head, forces the coupling-jaws apart by pressing back the springs *d d*. The coupling-jaws then engage the coupling automatically, and it can only be withdrawn by pressing back the coupling-jaws, which is done by the disconnecting-button *f*, operated through a slot in the top of the draw-head by its handle *g*.

h h represent holes for the pins *j j*, when it is desired to use the ordinary link and pin.

k k represent projections on the ends of the coupler, which, when inverted and placed in the draw-head, cause the coupler to point downward and engage itself with a draw-head lower than the one holding it.

l l are opposite interior recesses in the draw-head, permitting the coupling-jaws to give way to the pressure of the coupler when entering the draw-head, and to the pressure of the sliding or disconnecting button *f* when it is desired to withdraw the coupler.

m m are shoulders formed by the recesses, against which the dogs are pressed by the coupler, thus relieving the pin *c* from all pressure.

The disconnecting-button can be located and operated as shown in the drawings, or may be placed in the bottom of the draw-head under the coupler and operated through a slot in the bottom of the draw-head by a handle extending downward, thus protecting the interior mechanism from snow, ice, &c., and at the same time permitting perfect freedom in the operation of the parts.

I claim—

1. The combination, with the draw-head having opposite interior recesses in its sides, and in its top a slot, of a separate jaw and spring held in each recess by a single pin, and the button for separating the jaws, having an operating-handle which extends upwardly through the slot in the draw-head, substantially as and for the purpose described.

2. The combination, with the draw-head having in its top a slot and formed with opposite interior recesses, of coupling-jaws held in such recesses, springs also held therein operating against the jaws, the disconnecting-buttons operated by a handle through the slot in the draw-head, and the coupler or pin for engaging the jaws, having projections at its ends, substantially as described.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

LORENZO D. KEMERER.

Witnesses:
C. T. GARINGER,
W. R. GARINGER.