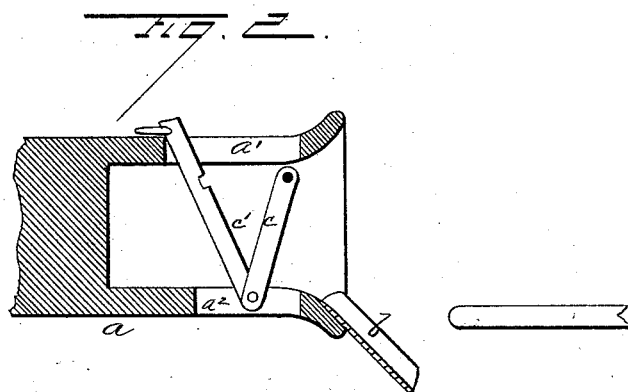
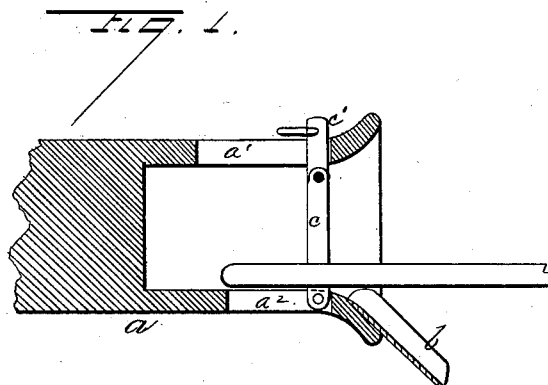


(No Model.)

E. APGAR.
CAR COUPLING.

No. 347,679.

Patented Aug. 17, 1886.



Witnesses:
H. C. McArthur
A. S. T. Arthur

Inventor:
Elias Apgar
Per: *H. Harrison*
Attorney.

UNITED STATES PATENT OFFICE.

ELIAS APGAR, OF GRAND CROSSING, ILLINOIS.

CAR-COUPLING.

SPECIFICATION forming part of Letters Patent No. 347,679, dated August 17, 1886.

Application filed March 5, 1886. Serial No. 194,099. (No model.)

To all whom it may concern:

Be it known that I, ELIAS APGAR, a citizen of the United States, residing at Grand Crossing, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Car-Couplings, of which the following is a specification, to wit:

This invention relates to car-couplings; and it consists in certain peculiarities of the construction and operation of the same, substantially as will be hereinafter more fully set forth and claimed.

In order to enable others skilled in the art to which my invention pertains to make and use the same, I will now proceed to describe its construction and arrangement, referring to the accompanying drawings, in which—

Figures 1 and 2 are sectional views of my coupling in two positions.

a represents a draw-head, of the usual or any desired form, having a longitudinal slot, *a'*, in its upper side and a similar one, *a''*, in the lower side, as shown. The forward lower side of this draw-head is provided with an inclined plate, *b*, to guide the link and lift it to proper place, if directed too low. The pin is made in two parts, *c c'*, one of which is hinged within the upper part of the draw-head and hangs down in the lower slot. The other

part of the pin is hinged or pivoted to the first at its lower end, and its upper end passes out through the upper slot, and is provided with a ring or other device to prevent its falling through, and to connect it with the top of the car, if desirable.

The ordinary link is used with this coupling, and it will be seen that when the link enters it pushes back the hinged pin, lifting its lower end, and allows it to fall within the link. When strain is applied, the two parts of the pin are drawn up, as in Fig. 1, taking the strain equally.

This coupling is readily and cheaply applied to any old style of draw-head, and couples with any ordinary coupler.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The draw-head *a*, formed with the slots *a' a''*, in combination with the pin *c c'*, all constructed and arranged to operate substantially as and for the purpose set forth.

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

ELIAS APGAR.

Witnesses:

W. S. MCARTHUR,
JAMES M. FISHER.