

J. GUM.  
Car-Couplings.

No. 143,756.

Patented Oct. 21, 1873.

Fig 1

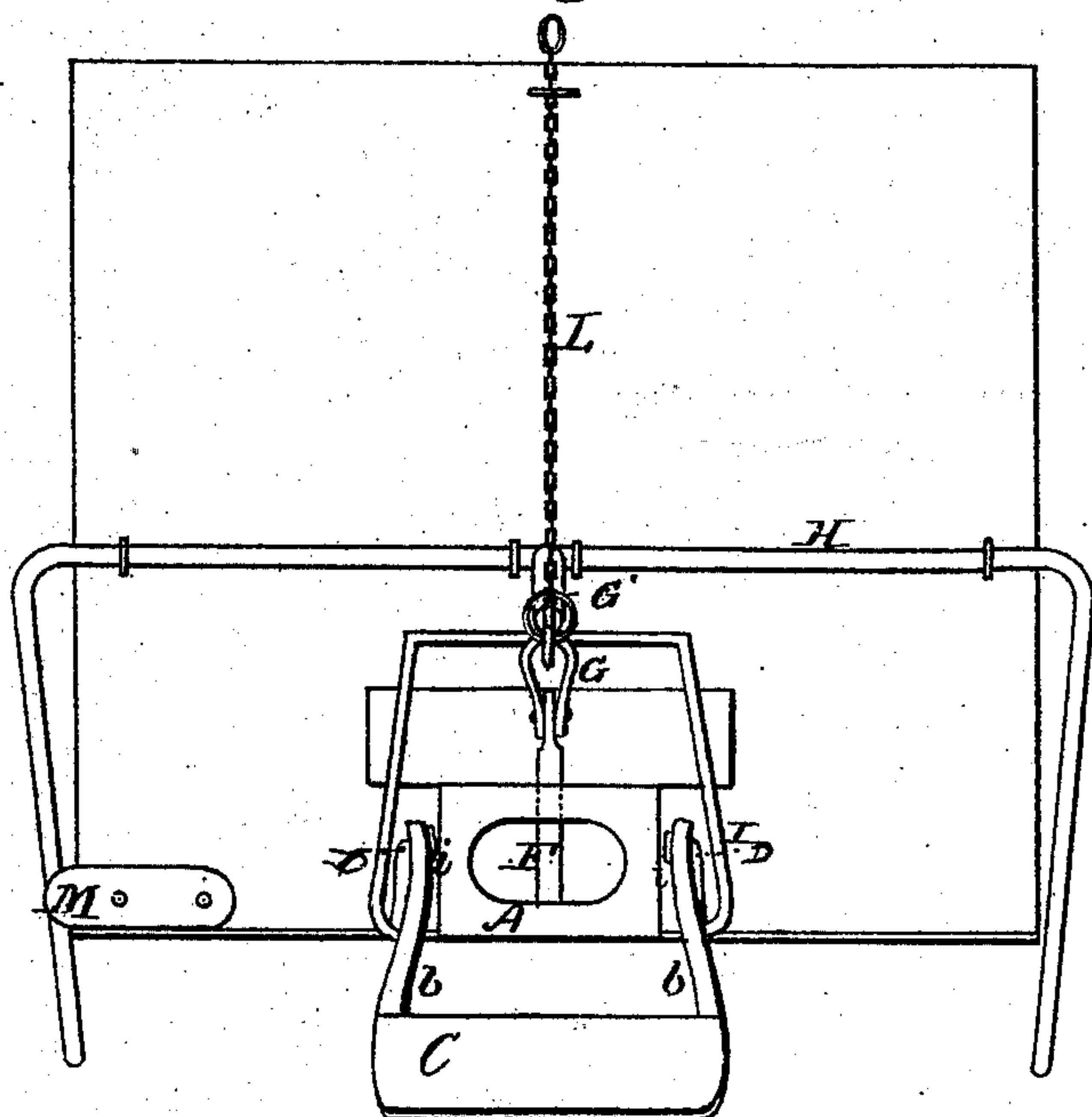
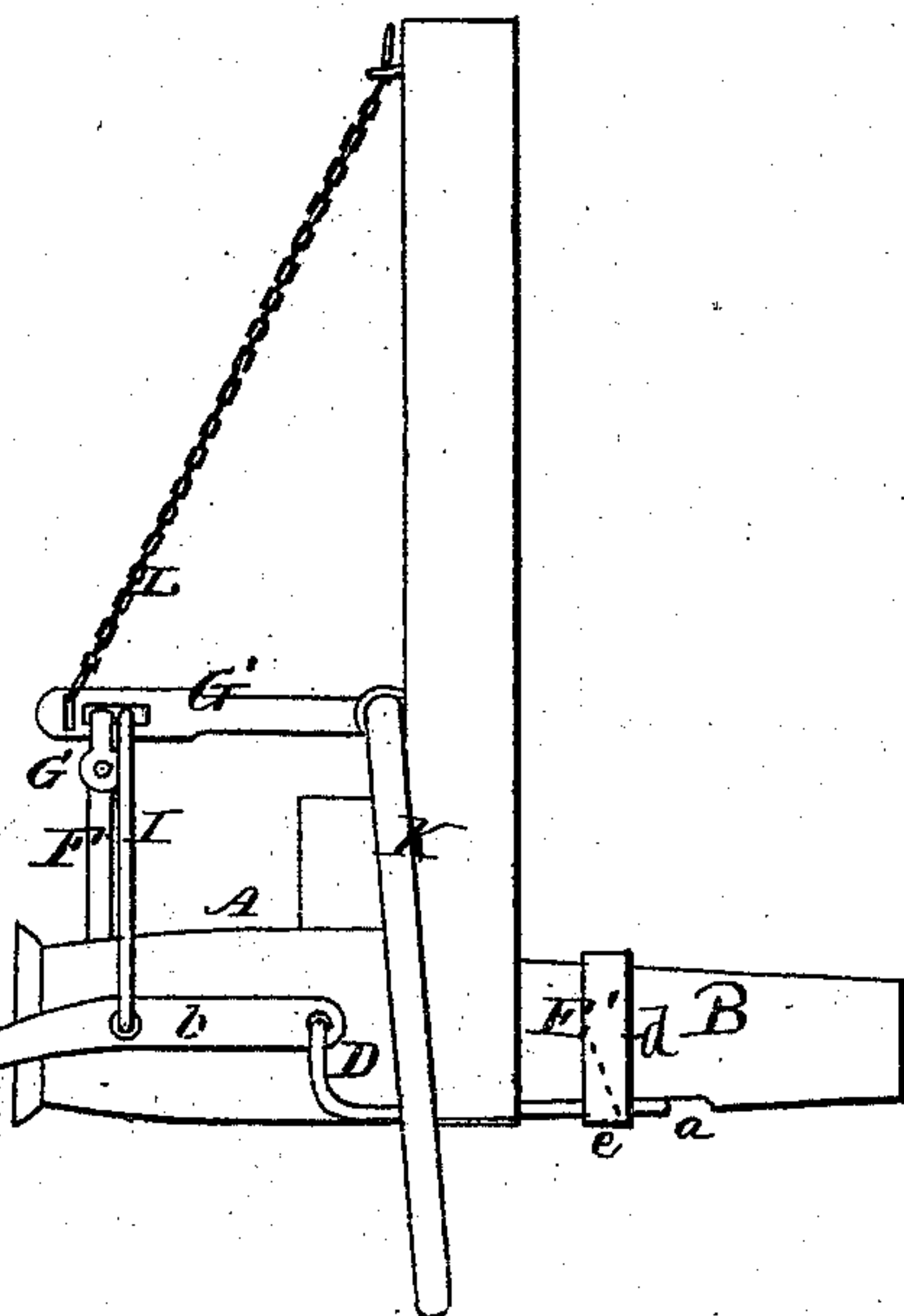


Fig 2



Witnesses

John Connolly.

Martin Connolly

Inventor

Joseph Gum.

by  
J. A. Connolly  
his Atty

# UNITED STATES PATENT OFFICE.

JOSEPH GUM, OF MARSEILLES, ILLINOIS, ASSIGNOR OF ONE-HALF HIS  
RIGHT TO FREDERIC KANE, OF SAME PLACE.

## IMPROVEMENT IN CAR-COUPPLINGS.

Specification forming part of Letters Patent No. **143,756**, dated October 21, 1873; application filed  
January 7, 1873.

*To all whom it may concern:*

Be it known that I, JOSEPH GUM, of Mar-  
seilles, in the county of La Salle and State of  
Illinois, have invented certain new and useful  
Improvements in Car-Couplers; and I do here-  
by declare that the following is a full, clear,  
and exact description thereof, that will enable  
others skilled in the art to which it appertains  
to make and use the same, reference being had  
to the accompanying drawings and to the let-  
ters of reference marked thereon, which form  
a part of this specification.

In the drawings, Figure 1 is a front view,  
and Fig. 2 a side view, of my invention.

This invention has relation to that class of  
car-couplings in which devices are provided  
for raising the link of an approaching car and  
the pin of the car to which said devices are  
attached; and it consists in the construction  
and novel arrangement of devices whereby the  
lifting-plate is rendered adjustable to suit cars  
having different-sized links, substantially as  
hereinafter specified.

Referring to the drawings, A designates the  
bumper or draw-head, the neck part B of which  
extends back underneath the car-platform, and  
is recessed in its under surface, as shown at *a*.  
C designates the hinged plate, by means of  
which the end of an approaching link is raised  
and properly conducted into the cavity of the  
draw-head A. This plate lies in front of its  
bumper, being secured to a U-shaped bar, the  
arms *b* of which extend back on either side of  
the bumper. These arms are hinged or piv-  
oted to the upwardly-bent, and thence in-  
wardly-projecting, ends of a rod, D, which is  
bent to the form of the letter Y, and passed  
under the neck of the bumper into the recess  
*a*, where it is held by means of loops *E'* on the  
ends of a metal strap, *d*, passing around said  
neck, as shown.

This arrangement of the hinged plate allows  
it to be somewhat adjusted. The ends of the  
bent rod D should be provided with nuts *i* to  
prevent the arms *b* from being displaced.

F designates the coupling-pin, suspended  
from a link, G, which passes through a slot in  
an arm, G', projecting from the middle part of  
a transverse bar, H, journaled to the end or  
platform of the car. Passing through said  
slot is also a bent rod, I, which is attached to  
the arms *b*. The rod H has handles K, located  
at the sides of the car. By turning said rod  
the link-plate and coupling-pin may be simul-  
taneously raised or lowered. Attached to the  
end of the arm G is a chain, L, which passes  
to the top or platform of the car, so that the  
link-plate and pin may be controlled by a per-  
son on the platform or roof of a car. M desig-  
nates a stop-plate, against which one of the  
handles K strikes when the link-plate and pin  
are raised, and which thus prevents these de-  
vices from being raised too high.

I do not claim as my invention the parts C  
*b* G G' H K I; but

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

1. The adjustable bent or Y-shaped device  
D, secured to the bumper-shank by means of  
the strap *d*, having loop *E'*, in combination  
with the combined link and pin lifter, con-  
structed substantially as herein shown and  
described.

2. The combined link and pin lifter, consist-  
ing of the plate C, having the arms *b* hinged  
to the bent rod D, the loop I, pivoted to the  
arms *b* between the plate C and rod D, the  
transverse bar H, having the handles K, the  
arm G', supporting the loop I, and the bent or  
Y-shaped adjustable device D, secured to the  
bumper-shank by means of the loop *E'* of the  
strap *d*, all substantially as and for the pur-  
pose specified.

In testimony that I claim the foregoing I  
have hereunto set my hand this 23d day of  
December, 1872.

JOSEPH GUM.

Witnesses:

W. A. MONEY,  
T. G. NORTHRUP.