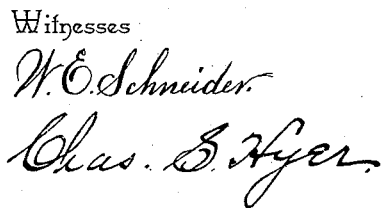


W. L. CARR.  
CAR MOVER.

Patented Jan. 3, 1893.



By *his* Attorneys,

Chas Snow & Co.

# UNITED STATES PATENT OFFICE.

WILLIAM L. CARR, OF BLANCHARD, ASSIGNOR OF ONE-HALF TO T. M. MONZINGO, OF COIN, IOWA.

## CAR-MOVER.

SPECIFICATION forming part of Letters Patent No. 489,410, dated January 3, 1893.

Application filed August 30, 1892. Serial No. 444,530. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM L. CARR, a citizen of the United States, residing at Blanchard, in the county of Page and State of Iowa, have  
5 invented a new and useful Car-Mover, of which the following is a specification.

This invention relates to new and useful improvements in car-starters or movers, and has for its object to provide simple and effective means of the character set forth, whereby  
10 the desired operation may be attained by the application of a small amount of power, and with this object in view the invention consists of the construction and arrangement of the  
15 parts as will be more fully hereinafter described and claimed.

In the drawings:—Figure 1 is a perspective view of a portion of a car, a wheel and axle, and track, showing the improved construction  
20 in connection with the relative parts. Fig. 2 is a detail perspective view of a part of the improved device disconnected.

Similar numerals of reference are employed to indicate corresponding parts in the several  
25 figures.

Referring to the drawings, the numeral 1, designates a car of any preferred form, having secured to the under side thereof, preferably to the sill of the same, a clamp 2, consisting of a bar 2<sup>x</sup> with upturned ends 3 and 4, the ends 3, having a spur 5 formed on the inner upper side, and the end 4 is provided with a screw threaded opening 6 therein to receive an adjustable clamping screw 7, having an operating crank 8, and a head 9 on opposite ends. The spur 5 engages one side of the sill to which the clamp is applied, and the head 9, the opposite side of said sill. The bar 2<sup>x</sup> connecting the upturned ends forms a  
40 yoke on which is loosely suspended a link 10 of considerable length, and in the lower portion of said link is adjustably mounted a hand-lever 11, having a series of fulcrum notches 12, in the under edge thereof adapted to engage the lower bend of the link, when  
45 adjusted, and prevent slipping of the lever from a desired point of adjustment. A link 13, is secured to an eye-bolt 14, mounted in

the inner end of the hand lever 11, and also connected to an eye-bolt 15 in the outer end  
50 of an arm 16, of a clevis 17, consisting of a flat plate of substantial U-shaped form loosely embracing the car-wheel, and by means of this connection the said clevis 17, may be raised or lowered to engage with or be disengaged  
55 from the flange and tread of a car wheel 18. The clevis 17 is constructed of square iron or steel, and it will be observed that the stress or power exerted thereon is confined to one side thereof and thereby clamps the same  
60 on the wheel and prevents slipping thereof. When the stress or power is removed by raising the lever 11, the said clevis slips down and becomes disengaged. The clevis is also formed with an inner arm 19, to which is secured a rod 20, having its free end 21, curved and engaging the axle 22. By means of this rod 20, the clevis 17, is held in proper position  
65 relatively to the circle of the carwheel.

The device is simple in its operation and  
70 can be effectually manipulated by the application of a small amount of power, and it will be observed that it may be applied to any car without changing the construction of the latter.

Having thus described the invention, what is claimed as new is:—

1. In a car-starter or mover, the combination of a clevis consisting of a flat plate having its innermost arm suspended from the  
80 car-axle and located beyond the inner side of the car-wheel, a loosely-suspended adjustable operating lever above said clevis extending outwardly from the car and having its inner end loosely connected to one side of said clevis  
85 and a loosely-mounted freely-movable link by which said lever is suspended, substantially as described.

2. In a car starter or mover, the combination of a clamp depending from the lower  
90 side of a car and consisting of a horizontal bar with upturned ends, a link loosely suspended from said horizontal bar of the clamp, a lever having notches in the under edge thereof and adjustably and loosely mounted  
95 in said link, a clevis embracing the wheel

and to which said link is also secured and  
consisting of a main body, an outer arm pro-  
jecting from the main body at a right angle  
and an inner arm, and a rod attached to the  
5 inner arm of said clevis and having its free  
end loosely engaging the axle of the car-wheel,  
substantially as described.

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

WILLIAM L. CARR.

Witnesses:

MORTIMER NEELY,  
M. BRYANT.