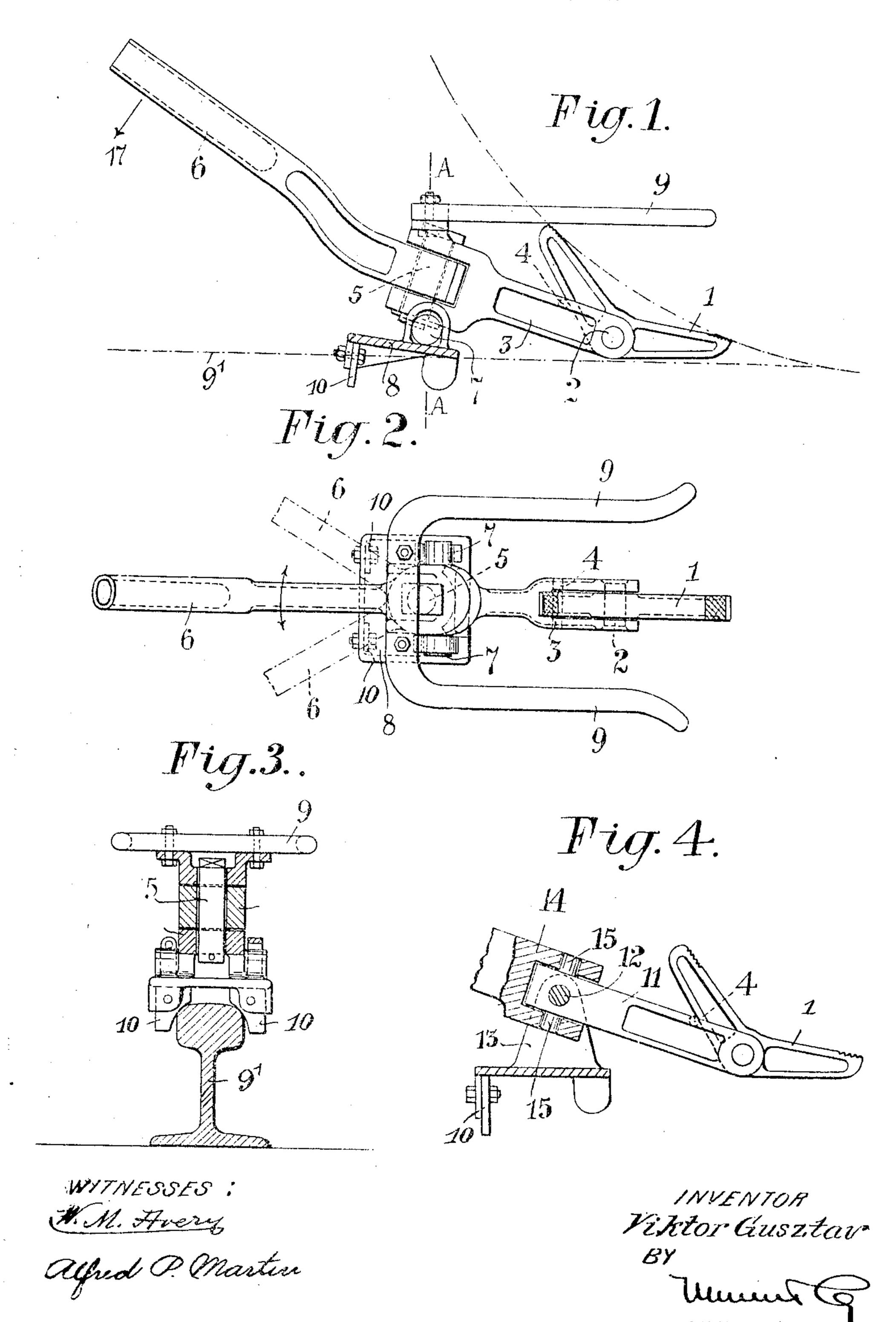
## V. GUSZTAV. CAR MOVER. APPLICATION FILED DEC. 5, 1906.



## UNITED STATES PATENT OFFICE.

## VIKTOR GUSZTÁV, OF VIENNA, AUSTRIA-HUNGARY:

## CAR-MOVER.

No. 878,381.

Specification of Letters Patent.

Patented 2. .... 4, 1908.

Application filed December 5, 1906. Serial No. 346,411.

To all whom it may concern:

Be it known that I, VIKTOR GUSZTÁV, engineer, a subject of the King of Hungary, and a resident of Vienna, in the Empire of 5 Austria - Hungary, I. Schottenring 25, have invented an Improvement in Car-Movers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in 10 the art to which it appertains to make and use the same.

The invention relates to a device for moving cars upon tracks, which is designed in arranged pin 4. The other end of the acting such a manner that the hand-lever may be | 15 swung laterally in order that the person using the car mover may stand either between or

outside of the track. the hand-lever of which is fulcrumed to the 20 head of another lever, which I shall name the | pivotally connected at 7 with the base plate acts upon it and is pivotally connected with the base plate, the pivoting connections of the hand-lever and the head of the acting 25 lever being arranged in such a manner to prevent tilting momentums which would tend to uplift the base plate from the rail when depressing the hand-lever; and in order to sinsure this I arrange in an inclined position 30 to the horizontal plane, the one pivot around which the hand-lever turns, and horizontally the other pivot around which the acting lever | guard hoop 9 which serves as a guide for the turns, the one pivot being placed substantially | car mover when it follows the rolling tire. obliquely above the other one; instead of the | The base plate is provided at its lower side 90 35 two pivots I may use a cross or "Cardan" | with clamping studs or preferably wedgejoint. That way I do away with the well- | shaped iron fasteners 10 to insure a firm hold known drawback of car movers, provided with | of the plate upon the rail-head. Instead of a laterally turning hand-lever, which have providing two pins obliquely located above both, the pivot of the hand-lever and the pivot | each other, I use a cross or Cardan joint, as 95 40 of the acting lever arranged at a horizontal dis- shown in Fig. 4, whereby the hand-lever is . tance from each other which distance creates | connected with the head of the acting lever a tilting momentum when the hand-lever is | and, at the same time, the latter lever pivotdepressed, whereas such tilting momentum ally secured to the base plate; since the two is avoided according to my improved con-privoting axes intersect each other no tilting 100 45 struction. To make the whole stroke of the | momentum, tending to uplift the base plate, hand lever useful for the purpose of pushing | can occur. The head of the acting lever 11 50 tire and follows the same whereas the thrust | pivots 15, 15; these pivots are arranged upon for a part of the stroke only and exerts no angle-lever-shaped thrust block.

view, Fig. 3 a cross section along the line I firm grip upon the rail head. As soon as the

A-A of Fig. 1 thereby showing the position of the car-mover upon the rail, and Fig. 4 illustrates the construction of the car mover

with a Cardan joint.

The thrust block I is in the shape of an angle-lever with preferably roughened gripping surfaces and pivotally connected at 2 with the acting lever 3. The pin 2 is horizontally located in the forked end of the 65 lever 3 and therefore the thrust block or gripping lever 1 can swing in a vertical plane, its movement being limited by a suitably lever 3 is formed into a forked head, wherein 70 a pivotal bolt 5, connecting the hand-lever 6 with the acting lever 3 is located, its axis being in a vertical plane so that the hand-lever 6 The object of the invention is a car mover | may be swung laterally, i. e., across of the direction of the rail. The head of the lever 3 is 75 cting lever, which carries the thrust-block | 8, the pivot 7 being horizontally arranged and in the operating position of the device obliquely below the bolt 5, which is in an inclined position to the horizontal plane. By 80 this arrangement the hand-lever 6 is fulcrumed to the acting lever above the pivot 7 and therefore no arm exists between handlever and base plate and no tilting momentum, tending to uplift the base plate from the 85 rail, is created in depressing the hand-lever.

The head of the acting lever 3 carries a a car I employ a thrust block in the shape of is pivotally secured by the pin 12 in the an angle-lever which is pivotally arranged so frame 13 and located in the forked head 14 that for the whole stroke it bears upon the of the hand-lever which turns around the 105 block of other ear-movers bears upon the tire | the head of the acting lever which carries the

more than a momentary impetus. . When using the device it is placed upon In the drawings Figure 1 is a vertical side the rail 9' and held in position by means of 110 55 elevation of the car mover, Fig. 2 a plan the clamping stude or plates 10 which have a

lever 6 is depressed in the direction of the arrow 17 the lever 3 is lifted and thereby the thrust block forced against the tire to push the same forward. If several cars are 5 coupled upon the track the hand-lever is swung, around the pin, out of the direction of the rail, as indicated by dotted lines in Fig. 2, so that the car mover can be operated sidewise. The shape of the thrust 10 block and the pivotal arrangement of the same permit of a movement of the block 1 behind the tire and thereby of a longer grip of the thrust block upon the tire lasting during the whole lifting motion of the block, so 15 that one stroke will push the car for a longer distance.

What I claim as my invention and desire

to secure by Letters Patent is:

1. A car mover comprising an acting lever, and a hand-lever the head of said acting lever pivotally connected with a base and a pivot within said head, located obliquely to and above the said pivotal connection and the hand-lever fulcrumed upon said pivots, substantially as described.

2. A car mover comprising a hand-lever and an acting lever with a forked lever head, horizontal pivots to said head and an upright pivot secured in said head, said pivot connecting the hand-lever to the acting lever,

substantially as described.

3. A car mover comprising an acting lever, an angle-lever pivotally secured to the front end of the said acting lever and a hand-lever to the head end, a pivotal bolt in the said head end and a horizontal pivot arranged be-

low and located obliquely to the said pivotal bolt, substantially as described.

4. In a car mover an angle shaped thrust block pivoted at its vertex or angular point 40 on the acting lever which is pivoted on the base plate, and a hand lever carried by said acting lever, substantially as described.

5. In a car mover a thrust block in the shape of an angle-lever pivoted to the front 45 end of the acting lever, an upright pivot in the head end, a hand-lever upon said upright pivot and horizontal pivots below and obliquely to the said upright pivots, substantially as described.

6. In a car mover a hand-lever and an acting lever, a Cardan joint connecting both levers and securing the acting lever to the base,

substantially as described.

7. In a car mover a hand-lever and an act- 55 ing lever, a Cardan joint connecting both levers and securing the acting lever to the base in combination with an angle-lever-shaped thrust block, substantially as described.

8. In a car mover a hand-lever fulcrumed 60 upon the acting lever, pivots upon the head of the acting lever and a pin in the said head connecting it with a base, and an angle-levershaped thrust block pivoted to the said acting lever, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of

two subscribing witnesses.

VIKTOR GUSZTÁV.

Witnesses:
Adn. Selenfreund,
Armin Jármad.