D. ARAM.

DOUBLE DRAW BARS SYSTEM.

APPLICATION FILED NOV. 11, 1919.

1,360,706.

Patented Nov. 30, 1920.

Fig. 1.

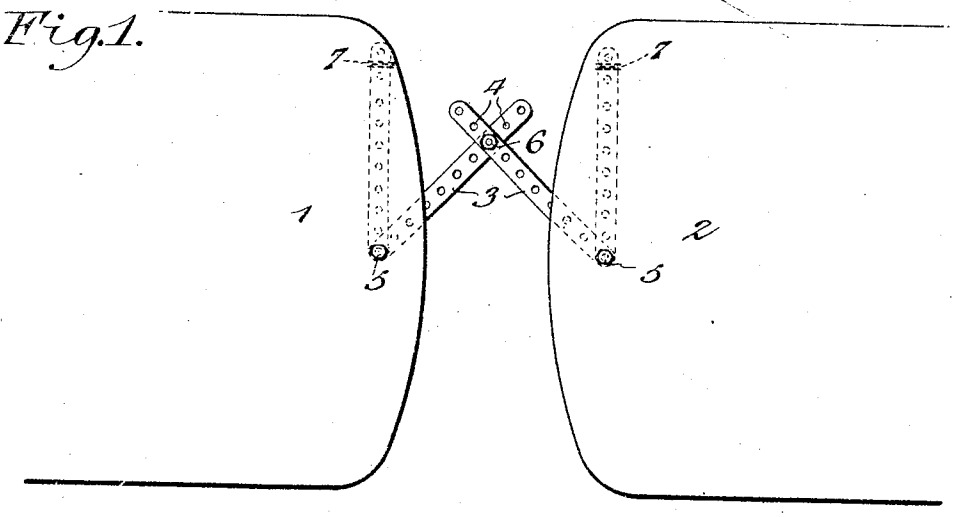


Fig. 2.

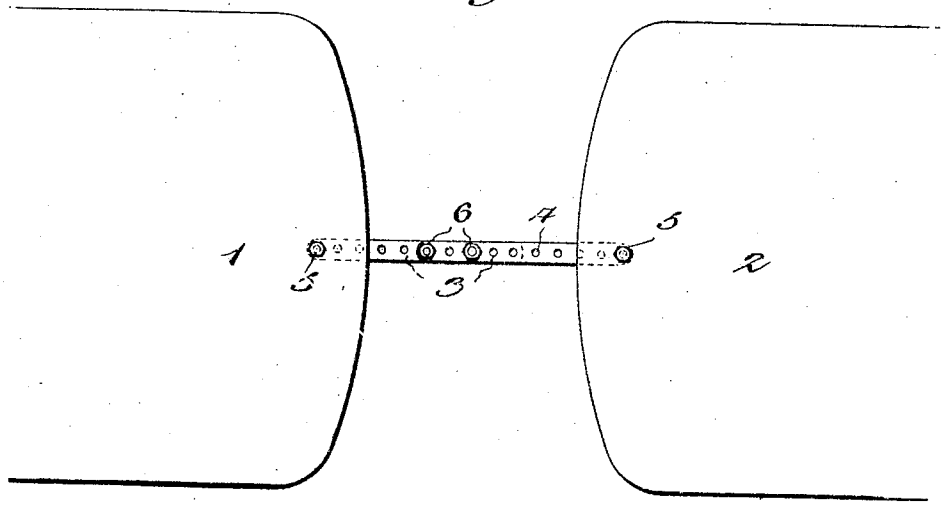
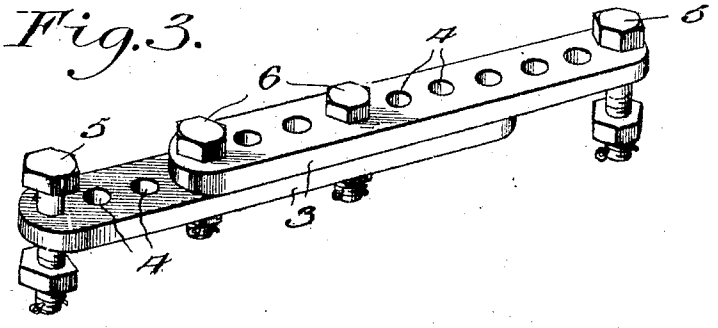


Fig. 3.



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DOUBLE DRAW-BARS SYSTEM.

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Application filed November 11, 1919. Serial No. 337,215.

To all whom it may concern:

Be it known that I, DIKRAN-ARAM, a native of Armenia, subject of the Turkish Empire, residing at 157 East 30th street, in the borough of Manhattan, city, county, and State of New York, have invented a new and useful Double Draw-Bars System, of which the following is a specification.

The object of my invention is the connection of two or more street cars together by a double drawbars system, by connecting one bar to each car and then fastening the two bars to each other by simple bolts.

Another object is to provide a light, short draw-bar which may be connected to the car and folded away thereon when not in use.

Another object is to provide a sectional draw-bar the sections of which may be adjustable with relation to each other for effecting a coupling without the necessity of movement of the cars.

Another object is to provide a device of this nature which shall eliminate danger of accident to the operator.

Another object is to provide a device of this nature which is adapted for operation by a single person.

Another object is to provide a draw-bar whereby two cars may be connected so as to couple together the rear ends of both or the front ends of both or the rear end of one with the front end of the other.

Other objects will appear from the following description and claims; and all of the objects are attained by the means shown in the accompanying drawing, in which:—

Figure 1 is a diagrammatic top plan view illustrating the manner of initially connecting the draw-bars of two cars.

Fig. 2 is a similar view illustrating the manner of finally connecting said draw-bars.

Fig. 3 is a perspective view of a pair of draw-bars connected.

Like characters of reference refer to like parts in all views.

With the present single draw-bar connection, accidents are very frequent and often of a most serious nature. This is due to the fact that in order to couple two cars, it is necessary that one person hold and guide the draw-bar while another operates one of the cars. The single bar is heavy and cumbersome to handle and oftentimes is the cause of the accident. The present invention contemplates the providing of comparatively short draw-bars one of which is secured to each end of each car and whereby a connection of the cars may be quickly and easily effected with perfect safety to the operator.

Referring more particularly to the drawings, 1 and 2 represent diagrammatically the ends of two cars to be coupled. As shown, each car is provided with a draw-bar 3 which is provided with a plurality of bolt holes 4 arranged substantially in line longitudinally of said bar 3. A bolt 5 passes through one of the end holes 4 and pivotally secures the bar to the end of the car. When the holes in the bars of two cars are brought into register, they may be secured together by bolts 6 as shown in Fig. 3.

The operation of the device above described is as follows:—

When it is desired to couple two cars together, they are brought with their ends in comparatively close relationship. The two draw-bars 3 which are thus brought into proximity with each other are then moved over each other with a scissors-like action until two of the holes 4 are brought into register. A bolt 6 is placed in these holes as shown in Fig. 1 and one of the cars is started up so as to bring the two bars into line whereupon others of the holes 4 are brought into register and a second bolt 6 may be inserted to complete the connection.

When not in use the draw-bars may be folded back to the dotted line position shown in Fig. 1, as they are slightly less than half as wide as the car to which attached. 7 represents a chain which may be connected at one end to the bottom of the car and may be bound around the draw-bar to hold it in retracted position when out of use.

While there has been described what is deemed to be the desirable embodiment of the invention, it is obvious that many of the details may be varied without in any way departing from the spirit of the invention which is, therefore, not limited to the exact details herein set forth nor to anything less than the whole of my invention limited only by the appended claim.

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

In a device of the class described, the combination of a pair of bars each pivotally mounted at one end to one end of a respective car and adapted to be moved under the end of

its respective car when not in use and each provided with a plurality of apertures, said bars being adapted to be moved across each other to effect registration of certain of said apertures to permit coupling by insertion of a bolt in the registering apertures and to be automatically moved with a scissors-like movement by movement of either car for bringing other of said apertures into registry to permit completion of the coupling of said bars in rigid alinement.

DIKRAN-ARAM.

In the presence of—
B. G. TERZIAN,
J. G. FLYNN.