

March 7, 1950

F. J. SEVER

2,499,531

ROCKER ATTACHMENT UNIT FOR TRICYCLES

Filed June 16, 1947

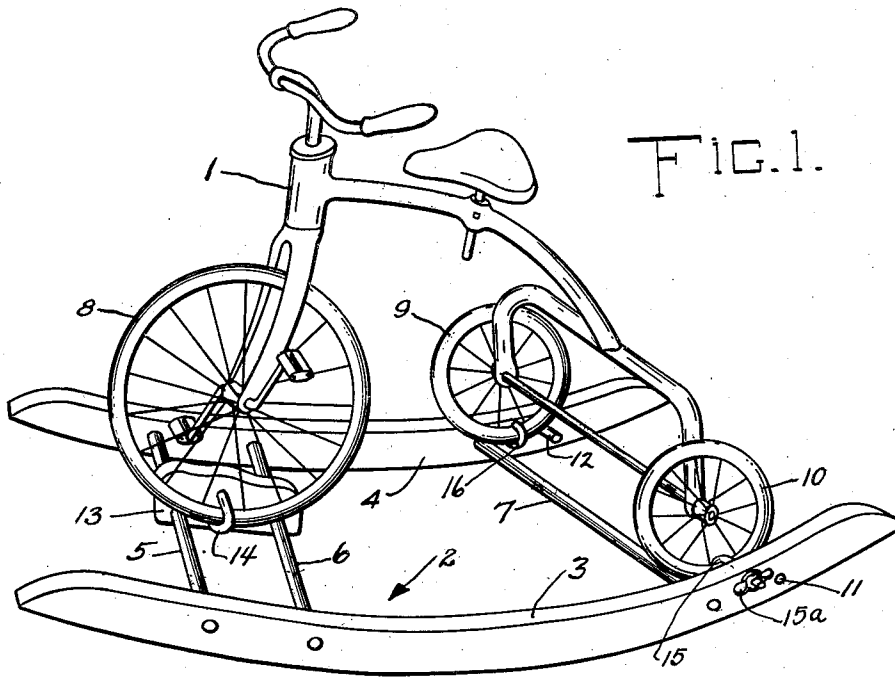


FIG. 1.

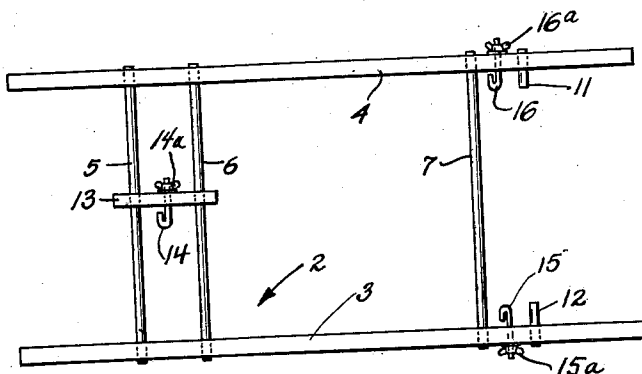


FIG. 2.

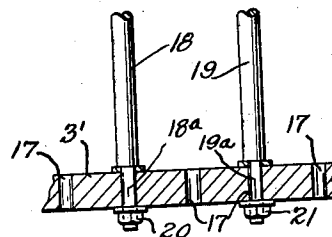


FIG. 5.

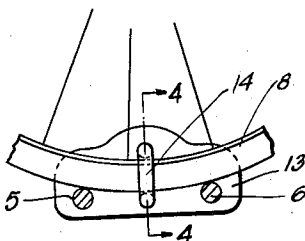


FIG. 3.

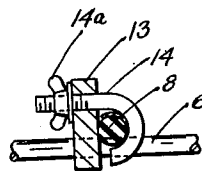


FIG. 4.

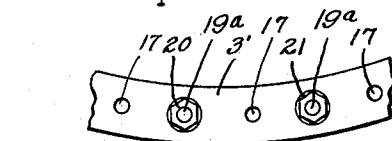


FIG. 6.

INVENTOR.

F. J. Sever
BY Robert Robb
Attorneys.

UNITED STATES PATENT OFFICE

2,499,531

ROCKER ATTACHMENT UNIT FOR TRICYCLES

Frank J. Sever, Cleveland, Ohio, assignor of
twenty-five per cent to Josephine M. Sever,
Cleveland, Ohio

Application June 16, 1947, Serial No. 754,988

2 Claims. (Cl. 280—7.17)

1

My present invention comprises a novel rocker attachment for wheeled vehicles such as children's velocipedes or the like, whereby such vehicle may readily be converted to a rocking vehicle.

The principal object of my invention is to provide such a rocker attachment which is of relatively simple construction, inexpensive to manufacture and which may be readily attached to or detached from the wheeled vehicle by the child using the same without special skill or necessity for using tools for this purpose.

Another object of this invention is to provide such a rocker attachment in which the means for mounting the wheels of the vehicle upon the rocker attachment are adjustable to accommodate vehicles of shorter or longer wheel base.

Another object of the invention is to provide such a rocker attachment in which the rocker members are adapted to be disposed longitudinally of the vehicle when the same is mounted upon the attachment.

Other objects, advantages, and features of the invention will become apparent from the following detailed description, taken in conjunction with the accompanying drawings in which:

Figure 1 is a perspective view showing a child's tricycle or velocipede mounted upon a rocker attachment embodying my invention.

Figure 2 is a top plan view of the rocker attachment alone.

Figure 3 is a detailed view partly in section and partly broken away showing the mounting of the front wheel of the tricycle upon the rocker attachment.

Figure 4 is a sectional view taken on the line 4—4 of Figure 3.

Figure 5 is a horizontal sectional view through a rocker showing a modification providing for adjustment of the cross members between the rocker members to permit accommodation of vehicles of different lengths of wheel base, the rocker member being partly broken away and the cross members also being broken away.

Figure 6 is a side view of the matter shown in Figure 5.

Now referring to the drawing, there is shown in Figure 1 a child's tricycle or velocipede designated by the numeral 1 mounted upon a rocker attachment embodying my invention and generally designated by the number 2.

This rocker attachment comprises the rocker members 3 and 4 which are laterally spaced from one another and are interconnected by means of cross members 5, 6 and 7, the ends of which

2

are permanently secured to the rocker members 3 and 4. The cross members 5, 6 and 7 may comprise bars or round rods and the rocker members 3 and 4 and the cross members may be of wood as shown. The cross members 5 and 6 are suitably spaced apart to receive the periphery of the front wheel 8 of the vehicle 1. The cross member 7 is spaced rearwardly from the front or forward cross members 5 and 6, and the rear cross member 7 comprises part of the mounting means for the rear wheels 9 and 10 of the vehicle 1.

For the mounting of the rear wheels 9 and 10, I utilize in conjunction with the rear cross member 7, short wheel engaging members 11 and 12 secured respectively to the rocker members 3 and 4 and laterally offstanding inwardly therefrom. These wheel engaging members 11 and 12 may be of round wooden or metal stock as shown and have their outer ends permanently secured to the rocker members 3 and 4. The wheel engaging members 11 and 12 are spaced rearwardly from the rear cross member 7 so that the rear wheel 9 rests upon the cross member 7 and upon the wheel engaging member 12 while the rear wheel 10 of the tricycle rests upon the cross member 7 and the wheel engaging member 11, in a manner similar to the way in which the front wheel 8 rests upon the spaced forward cross members 5 and 6.

For detachably securing the front wheel 8 in its position resting upon the cross members 5 and 6, I provide a wheel engaging member 13 which is mounted centrally of the cross members 5 and 6 and extends vertically upwardly therefrom in position to engage one side of the said front wheel 8, and I provide detachable securing means in the form of hook bolts 14, 15 and 16 carried by the upright wheel engaging member 13 and by the rocker members 3 and 4 respectively. The hook bolts 14, 15 and 16 have hook portions which engage around the rims of the wheels 8, 9 and 10 and the shanks of these bolts extend through the upright member 13 and through the rockers 3 and 4 and are secured by means of wing nuts 14a, 15a and 16a.

In the use of my invention it will be apparent that when it is desired to mount the tricycle 1 upon the rocker attachment 2 to convert the same into a rocking vehicle, the tricycle 1 is disposed with the front wheel resting upon the cross members 5 and 6 the rear wheels resting upon the cross member 7 and the wheel engaging members 11 and 12. Then the hook bolts 14, 15 and 16 are manipulated so that the hook portions thereof

engage around the rims of the wheels 8, 9 and 10 and the wing nuts 14a, 15a and 16a drawn up tightly so as to secure the wheels in place as described and shown. It is of course a simple matter to loosen the wing nuts so as to disengage the hook bolts from the wheels when it is desired to remove the vehicle from the rocker attachment for its normal use as a wheeled vehicle.

In the modification of Figures 5 and 6 which is designed to enable accommodation of vehicles of different lengths of wheel base, means is provided for adjustment of the rear wheel mounting means relative to the rocker members. This is accomplished by providing a plurality of apertures extending through the rocker members adjacent the rear end thereof as indicated by the numeral 17 in reference to the rocker member 3' of Figures 5 and 6. Instead of the cross members 7 and the wheel engaging members 11 and 12 which are permanently secured to the rocker member 1 utilize in the modification of Figures 5 and 6 wheel engaging members 18 and 19 which are detachably securable to the rocker members. The wheel engaging members 18 and 19 have reduced shank ends 18a and 19a which are adapted to be inserted through the apertures 17 in the rocker members and said reduced shank ends are threaded for receiving nuts 20 and 21 for securing the wheel engaging members 18 and 19 to the rocker members in a detachable manner. Washers may be received upon the shank ends 18a and 19a engaging opposite sides of the rocker member as shown in Figure 5 most clearly. Both of the wheel engaging members 18 and 19 may comprise cross members extending between both of the rocker members, or if desired only one of the members 18 and 19 may be a cross member and the other of these members may be short laterally inwardly extending members like the members 11 and 12

of the form of rocker attachment of Figures 1 and 2.

It will be apparent in reference to the modification of Figures 5 and 6 that depending upon the wheel base length of the vehicle desired to be mounted upon the rocker attachment, the wheel engaging members 18 and 19 will be inserted in the holes 17 as desired and the spacing between the members 18 and 19 can be adjusted by selection of different of the holes 17 for receiving one or the other of the members 18 and 19.

Having thus described my invention what I claim as new and desire to secure by Letters Patent of the United States is:

1. A rocker attachment for a wheeled vehicle comprising a pair of spaced rockers and cross braces therebetween adapted to accommodate the wheels of said vehicle, including elongated members having open hook formations and being transversely slidable in said rockers and thereby engageable with certain wheels around the rims and tires thereof, and manually adjustable means for tensioning said hook members to clamp said wheels.

2. A rocker attachment as set forth in claim 1 including a wheel engaging plate carried by a pair of said braces and disposed substantially centrally of said rockers, and means carried by said plate for clamping another wheel thereto.

FRANK J. SEVER.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
594,311	Yehle	Nov. 23, 1897
776,665	Leadbetter	Dec. 6, 1904