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RUNNER ATTACHMENT FOR SCOOTERS

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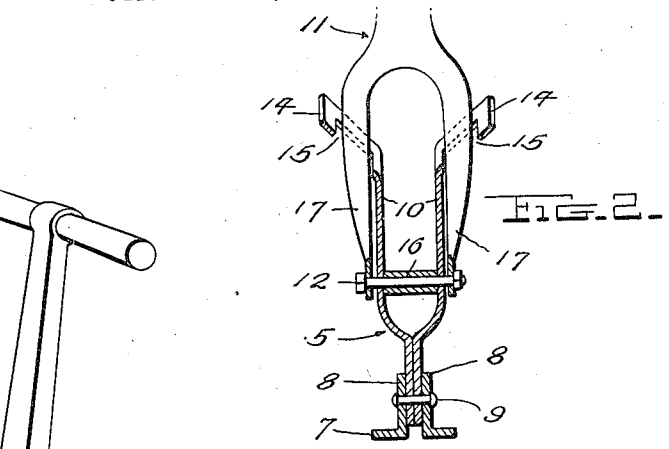


FIG. 2.

FIG. 1.

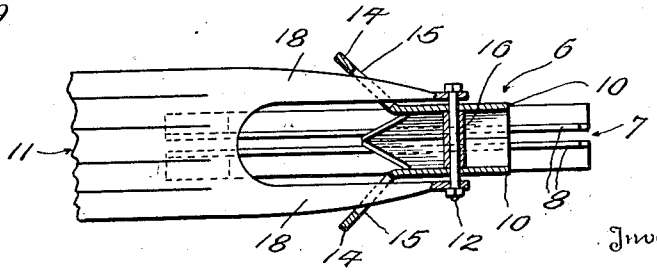


FIG. 3.

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RUNNER ATTACHMENT FOR SCOOTERS

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5 Claims. (Cl. 280—27)

The invention aims to provide a simple, inexpensive, easily attached and detached, and effective runner attachment, two of which may be readily substituted for the wheels of a child's scooter, permitting safe use thereof on snow and ice.

In carrying out the above end, a further object is to make novel provision to prevent the runners from overturning about their pivotal connections with the forks of the scooter.

With the foregoing in view, the invention resides in the novel subject matter hereinafter described and claimed, description being accomplished by reference to the accompanying drawing.

Figure 1 is a perspective view showing a scooter equipped with two of the attachments, one on the front and the other on the rear.

Figure 2 is a vertical sectional view partly in elevation as indicated by line 2—2 of Fig. 1.

Figure 3 is a horizontal section partly in elevation as indicated by line 3—3 of Fig. 1.

A preferred construction has been illustrated and will be rather specifically described, with the understanding, however, that within the scope of the invention as claimed, variations may be made.

As the general constructions of the front attachment 5 and rear attachment 6 are very similar, a general description of one will apply to both, and to this end, the front attachment 5 will be explained.

The attachment 5 includes a runner 7 which is preferably a twin runner formed from two suitably shaped lengths of angle metal having their vertical flanges 8 connected by bolts or rivets 9. The lower portions of two vertical plates 10 extend between the flanges 8 and are secured in place by means of the rivets or bolts 9, said plates forming a knee for pivotal connection with a wheel fork of the scooter 11, the plates being connectible with the side arms of the fork by means of a bolt or the like 12 which may well be the conventional wheel axle bolt of the scooter. The upper portions of the plates 10 are spaced apart abreast of each other to lie at the inner sides of the fork side arms, and said upper portions of said plates are provided with lateral wings 14 having openings 15 through which said fork arms may extend loosely. Thus, while pivotal motion of the runner 7 is permitted during operation of the scooter, the runner is prevented from "nosing-over" or otherwise overturning about its pivot 12. A bushing 16 is by preference provided on the bolt or the like 12 to hold the upper portions of the plates 10 spaced apart, and this bushing may well be the conventional wheel hub bushing of the scooter wheel.

On the front attachment 5, the wings 4 are at the upper extremity of the knee formed by the plates 10, to properly engage the side arms 17 of the front wheel fork. On the rear attachment 6, the wings 14 are at the upper front portion of the knee to properly engage the side arms 18 of the rear fork. The various wings are preferably formed integral with the plates 10 which form the knees, as shown.

From the foregoing, taken in connection with the accompanying drawing, it will be seen that novel and advantageous provision has been made for carrying out the objects of the invention. While preferred details have been disclosed, attention is again invited to the possibility of making variations within the scope of the invention as claimed.

I claim:

1. A runner attachment for a scooter having a fork, said attachment comprising a runner to underlie the fork, a knee projecting upwardly from said runner for reception between and pivotal connection with the side arms of said fork, and at least one lateral wing on said knee having an opening through which one of said side arms of the fork may pass loosely, preventing overturning of the runner about the pivotal connection.

2. A runner attachment for a scooter having a fork, said attachment comprising a runner to underlie the fork, a knee projecting upwardly from said runner for reception between and pivotal connection with the side arms of said fork, said knee including a pair of plates disposed abreast of each other and having their upper portions in spaced relation, said spaced upper portions of said plates having openings through which a pivot may be passed to connect the knee with the aforesaid side arms of the fork, said plates being provided with lateral wings rigidly secured to their upper portions, said wings having openings through which the side arms of the fork may pass loosely, preventing overturning of the runner about the aforesaid pivot.

3. A runner attachment for a scooter having a fork, said attachment comprising a runner to underlie the fork, a knee projecting upwardly from said runner for reception between and pivotal connection with the side arms of said fork, said knee including a vertical plate having an opening through which a pivot may be passed to connect the knee with the aforesaid side arms

of the fork, the upper portion of said plate being provided with integral laterally projecting portions spaced apart for disposition at opposite sides of one of the fork arms, preventing the attachment from overturning about its pivot.

4. A runner attachment for a scooter having a fork, said attachment comprising a twin runner having upstanding flanges, two vertical plates having their lower end portions secured between said flanges, the upper portions of said plates being laterally spaced apart and having openings through which to pass a pivot for connecting said plates with the side arms of said fork, and a bushing between said spaced portions of said plates and abutting the same in alinement with said openings to receive said pivot.

5. A structure as specified in claim 4; said spaced portions of said plates being provided with integral laterally bent portions having openings through which said side arms of the fork may pass loosely to prevent the attachment from overturning about the aforesaid pivot.

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