

Aug. 27, 1957

R. SALOSKY

2,803,920

TOY VEHICLE

Filed March 30, 1956

FIG. 1

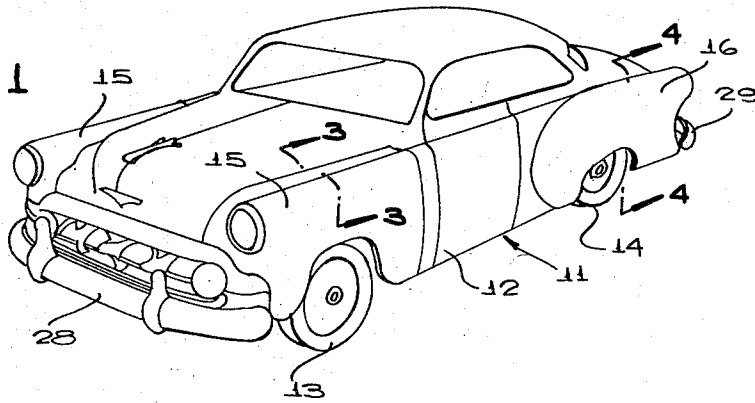


FIG. 2

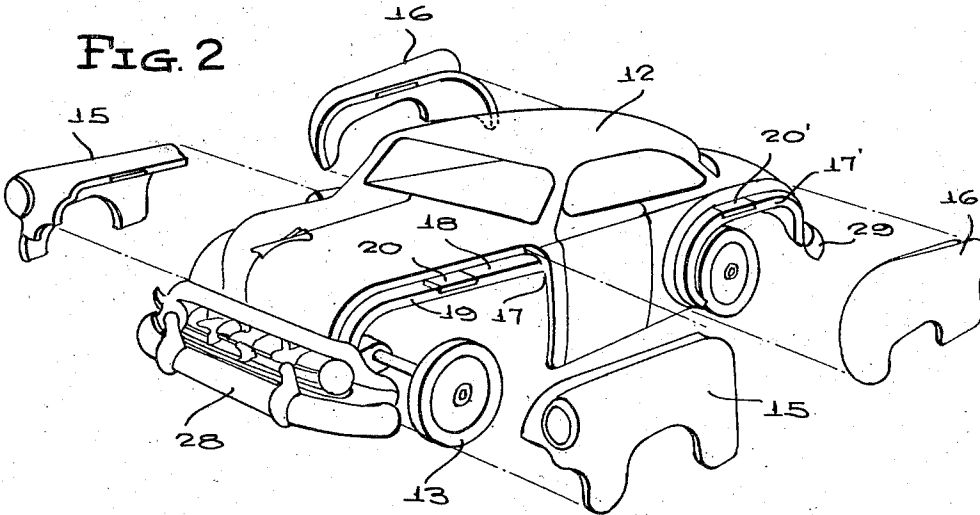


FIG. 3

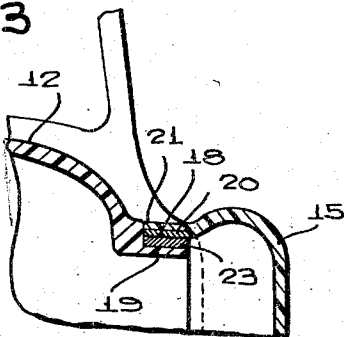
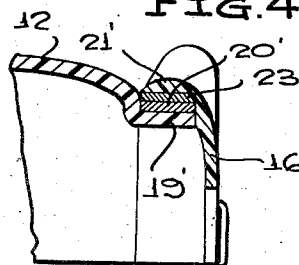


FIG. 4



INVENTOR.  
ROBERT SALOSKY

BY

*McMurray, Perman + Davidson*  
ATTORNEYS

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2,803,920

## TOY VEHICLE

Robert Salosky, Cleveland, Ohio

Application March 30, 1956, Serial No. 575,122

3 Claims. (Cl. 46—17)

This invention relates to toys, and more particularly to a toy vehicle simulating an automobile and provided with detachable portions which jar loose from the vehicle as a result of an impact.

A main object of the invention is to provide an improved toy vehicle which is simple in construction, which provides a high degree of interest for children, and which is provided with detachable portions which jar loose responsive to impact on the vehicle but which may be readily replaced without requiring the use of any tools or unusual dexterity.

A further object of the invention is to provide a novel and improved simulated toy automobile having detachable fenders which are so arranged that they will jar loose responsive to the impact of the toy vehicle with any resistant object, the toy vehicle being inexpensive to manufacture, being durable in construction, and being safe to use.

Further objects and advantages of the invention will become apparent from the following description and claims, and from the accompanying drawings, wherein:

Figure 1 is a perspective view of a toy vehicle constructed in accordance with the present invention.

Figure 2 is a perspective view of the vehicle of Figure 1 shown with its fenders detached.

Figure 3 is an enlarged cross sectional detail view taken on line 3—3 of Figure 1.

Figure 4 is an enlarged cross sectional detail view taken on line 4—4 of Figure 1.

Referring to the drawings, the toy vehicle is designated generally at 11 and may comprise, for example, a toy motor vehicle having a wheeled body 12, the body having the front wheels 13 and the rear wheels 14. The body is provided with the detachable front fenders 15, 15 and the detachable rear fenders 16, 16.

As shown in Figure 2, the forward portion of the main component of the vehicle body is formed over the front wheels 13 with respective recesses 17, the recesses 17 being adapted to receive the front fenders 15. Each recess 17 is formed at its top margin with a longitudinally extending right angled seat 18 having the horizontal flange portion 19. Secured in the intermediate portion of each horizontal flange portion 19 is a permanent magnet 20. Each front fender 15 is formed at its top margin with the inwardly extending flange element 21 shaped to be received in the seat 18 and to overlie the horizontal flange 19 of the associated recess 17, and each fender 15 has secured in the intermediate portion of its flange 21 a plate element 23 of magnetic material which is located so as to substantially overlie the permanent magnet 20 when the fender is in place in its recess 17. Thus, as shown in Figure 3, the magnetic plate 23 is in contact with the permanent magnet 20 when the fender 15 is in place. As will be readily apparent, when the vehicle experiences a substantial impact, as when it runs into a resistant object, the vibration produced causes the fender 15 to shake loose from its recess 17 and to become detached from the vehicle body 12. However, the fender

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may be readily replaced by merely fitting it into the recess 17 to bring its plate element 23 into contact with the permanent magnet 20 in the recess.

The rear fenders 16 are similarly releasably held in rear recesses 17' provided at the opposite sides of the vehicle body 12 at the rear end of the body. The rear recesses 17' are provided with horizontal flange portions 19' in which are secured respective permanent magnets 20'. The rear fenders 16 have secured in their flange portions 21' respective plate elements 23' of magnetic material adapted to be attracted by the permanent magnets 20' when the rear fenders are inserted in their recesses 17', whereby said rear fenders will be detachably secured to the vehicle body 12 but will be shaken loose when the vehicle body experiences a substantial impact, as in the case of the front fenders 15. When the rear fenders 16 are shaken loose, they may be readily replaced by re-fitting them into their recesses 17' in the same manner as described in connection with the front fenders 15.

If so desired, the magnetic plate elements 23 and 23' may be permanently magnetized so as to increase the magnetic attraction between said elements 23 and 23' and their associated permanent magnets 20 and 20', the magnetized elements 23 and 23' being arranged so that their polarity is such as to attract the permanent magnets 20 and 20' and to exert a sufficient force to hold the fenders 15 and 16 in place unless a substantial impact is experienced by the vehicle body 12.

The vehicle body 12 is provided with simulated front and rear bumpers, shown at 28 and 29 which are preferably made of relatively yieldable material, such as hard or soft rubber, thereby preventing the vehicle from damaging any object which it encounters.

The vehicle may be of the spring-wound type, including a spring motor, so that it may be wound up and then released, or may be of any other mechanically driven type, for example, of a type employing a friction motor.

In the case of larger vehicles constructed in accordance with the present invention, for example, vehicles adapted to contain children as occupants, instead of employing magnets to detachably secure the fenders to the vehicle, the fenders may be detachably connected by any suitable vibration-responsive means adapted to allow the fenders to shake loose responsive to an impact, for example, the body may be provided with eyelets along the fender recesses and the fenders may be provided with hooks engaging in the eyelets and shaped so as to be detached from the eyelets responsive to a substantial impact experienced by the vehicle body.

As will be readily understood, the shaking loose of the fenders adds considerable amusement to the use of the toy vehicle, and furthermore stimulates the constructive interest of the child using the vehicle since the child is enabled to easily replace the fenders on the vehicle after they have shaken loose.

While a specific embodiment of an improved toy vehicle has been disclosed in the foregoing description, it will be understood that various modifications within the spirit of the invention may occur to those skilled in the art. Therefore it is intended that no limitations be placed on the invention except as defined by the scope of the appended claims.

What is claimed is:

1. A toy vehicle comprising a wheeled body simulating an automobile, said body being formed adjacent its wheels with respective recesses, respective fenders fitting into said recesses and formed to overlie the upper portions of the respective adjacent wheels, respective permanent magnets mounted in said recesses, and respective magnetic elements secured on the fenders at the portions thereof engaging in said recesses and located so as to be

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attracted to said magnets, whereby to removably secure the fenders in said recesses, said recesses and magnetic elements being formed and arranged to allow the fenders to be shaken off responsive to impact.

2. A toy vehicle comprising a wheeled body simulating an automobile, said body being formed adjacent its wheels with respective recesses, said recesses comprising horizontal, longitudinally extending seat portions, respective fenders fitting into said recesses and formed to overlie the upper portions of the respective adjacent wheels, said recesses extending substantially the entire length of the fenders, respective permanent magnets mounted in said seat portions, and respective magnetic elements secured on the fenders at the portions thereof engaging on said horizontal seat portions and located so as to be attracted to said magnets, whereby to removably secure the fenders in said recesses, said recesses and magnetic elements being formed and arranged to allow the fenders to be shaken off responsive to impact.

3. A toy vehicle comprising a wheeled body simulating an automobile, said body being formed adjacent its wheels

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with respective recesses, said recesses comprising horizontal, longitudinally extending seat portions, respective fenders fitting into said recesses and formed to overlie the upper portions of the respective adjacent wheels, said recesses extending substantially the entire length of the fenders, respective permanent magnets mounted in said seat portions, and respective auxiliary permanent magnets secured on the fenders at the portions thereof engaging on said horizontal seat portions and located so as to attractively cooperate with said first named permanent magnets, whereby to removably secure the fenders in said recesses, said recesses and permanent magnets being formed and arranged to allow the fenders to be shaken off the body responsive to impact.

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