Nov. 6, 1934. H. D. ALLEN 1,979,242

WHEELED TOY

Filed July 12, 1933

Fig. 1.

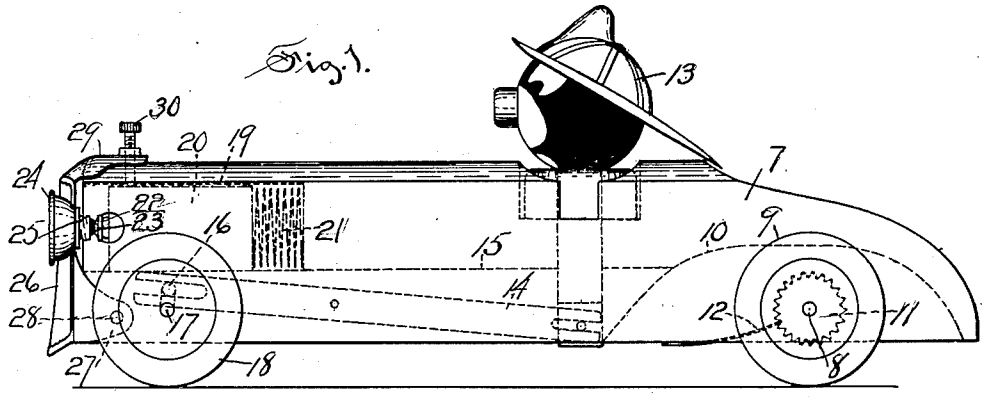


Fig. 3.

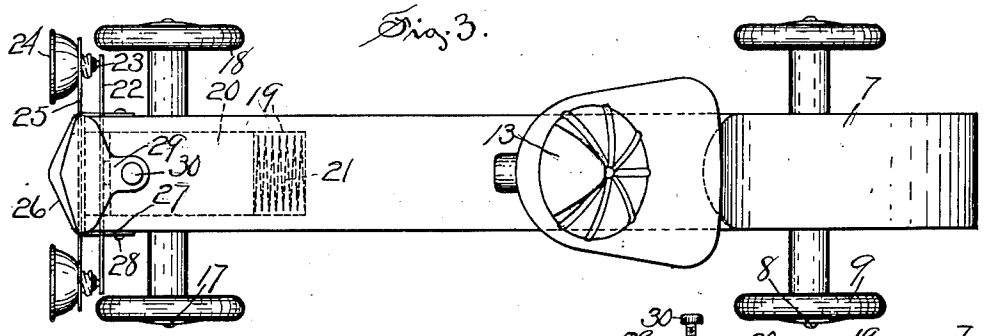


Fig. 2.

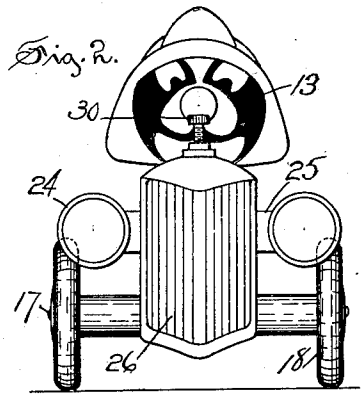


Fig. 5.

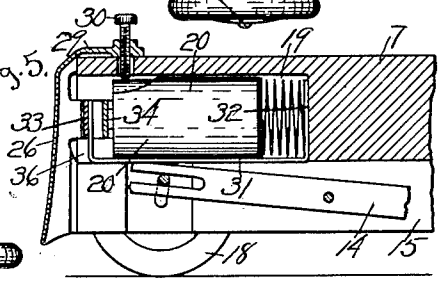


Fig. 6.

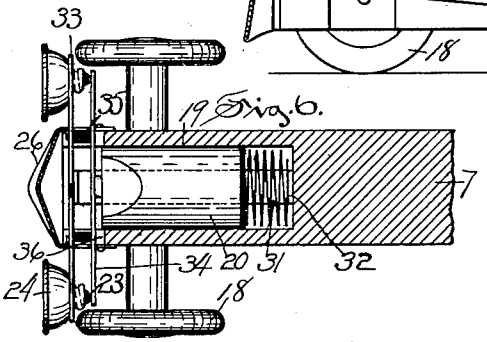
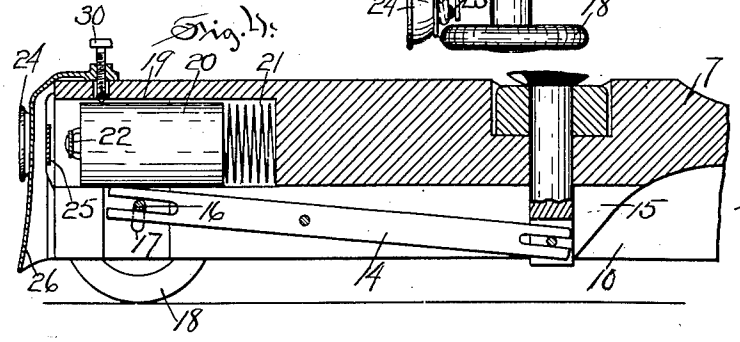


Fig. 4.



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UNITED STATES PATENT OFFICE

1,979,242

WHEELED TOY

Harold D. Allen, East Hampton, Conn., assignor to The Gong Bell Manufacturing Company, East Hampton, Conn., a corporation of Connecticut

Application July 12, 1933, Serial No. 680,055

9 Claims. (Cl. 46—48)

My invention relates to that class of toys which are propelled in any suitable manner along a surface, and an object of my invention, among others, is to provide a toy in simulation of an automobile having means for the reception of electrical apparatus which may be employed for any desired purpose, as for illuminating miniature lamps supported on the vehicle.

One form of a toy embodying my invention and in the construction and use of which the objects herein set out, as well as others, may be attained is illustrated in the accompanying drawing, in which—

Figure 1 is a side view of my improved toy.

Figure 2 is a front view of the same.

Figure 3 is a top view.

Figure 4 is a view in lengthwise section through a portion of the front end of the body of my improved toy.

Figure 5 is a view similar to Figure 4 but illustrating a modified form of my invention.

Figure 6 is a view in horizontal section through that portion of the toy illustrated in Figure 5.

In the accompanying drawing the numeral 7 denotes the body of my improved toy which is preferably constructed of wood and which is cut out and recessed to receive various devices. A rear axle 8 extends through the body and has wheels 9 secured at the ends thereof to support the rear end of the body. A recess 10 is formed in the underside of the body at the rear end for the reception of a toothed click wheel 11 having a resilient click 12 engaged with its teeth to provide a clicking noise. A robot head 13 is mounted at the top of the vehicle body and has a vertical reciprocating movement as by means of a lever 14 pivotally mounted in a slot 15 in the bottom of the body, the forward end of said lever being engaged with a crank 16 on the front axle 17 which is mounted in the body to support the front wheels 18.

A hole 19 is bored into the front end of the body to receive an electric cell 20 which is pressed forwardly as by means of a spring 21. A conducting bar 22 extends across the front end of the hole 19, projecting out at opposite sides of the vehicle body, said bar being somewhat loosely supported in position but being held in place by its resiliency exerting pressure at its opposite ends against the central terminals 23 of miniature lamps 24 attached to a lamp supporting bar 25 secured to and extending from opposite sides of a radiator unit 26 formed to simulate the radiator of an automobile. The bar 22 is insulated as by means of the wooden body 7.

The unit 26 has ears 27 at opposite sides through which pivots 28 extend to pivotally attach the radiator unit at its lower end to the vehicle body. An extension 29 from the upper end of the radiator unit comprises a cap which projects over the top of the front end of the vehicle body, a contact screw 30 in said extension projecting through a hole in the top of the vehicle body into the hole 19, wherein the inner end of the screw 30 is forced against the side of the cell 20, thereby establishing an electrical connection from the cell through the radiator unit to the shells of the lamps, through the filaments therein to the central terminals 23 thereof and through the bar 22 to the central terminal of the cell.

The screw 30 projecting through the hole in the vehicle body also serves as a means for retaining the radiator unit in place to close the hole 19 into the vehicle body, and the pivots 28 enable the radiator unit when loosened to be swung downwardly to uncover the hole and permit access to the chamber within which the cell 20 is located.

In the structure shown in Figs. 5 and 6 the radiator unit also includes a carrier for the electric cell, which carrier is in the form of a bracket comprising a base 31 and upturned ends 32, the front upturned end having the supporting bar 33 secured thereto, as by riveting, and said bar having the lamps 24 attached as hereinbefore described with respect to the bar 25. The conducting bar 34, when the cell is in place, is supported in yielding contact with the central terminals 23 of the lamps, and the conducting bar is separated from the supporting bar by spacers 35 of insulating material. In this form of the device the radiator is not pivoted to the body but is held in place by the cell supporting bracket to which it is secured. The electrical circuit is, as hereinbefore described, from the central terminal of the battery by the conducting bar 34 to the central terminals 23 of the lamps, through the filaments thereof to the shells and through the supporting bar 33 to the cell supporting bracket and the radiator, and through the latter, the extension 29 and contact screw 30 to the side of the shell of the cell 20, said shell having an insulating wrapper to insulate it from its supporting bracket.

In this structure the radiator unit including the cell supporting bracket may be removed from the hole 19, thus giving ready access to the bracket for removal or replacement of the cell 20, and the bracket being inserted in the hole 19 the radiator unit is rigidly held in place. The

body is provided with slots 36 extending inwardly from the ends of the body on opposite sides of the hole 19 into which slots the bars 33 and 34 are passed when the unit is placed in position, said bars holding the bracket from turning movement in said hole.

In accordance with the provisions of the patent statutes I have described the principles of operation of my invention together with the device which I now consider to represent the best embodiment thereof; but I desire to have it understood that the device shown is only illustrative, and that the invention may be carried out by other means and applied to uses other than those above set out.

I claim—

1. A toy vehicle including a body with a hole of substantially the shape and size of an electric cell extending from its front end to receive said cell, a conducting bar projecting across said hole and extending on opposite sides of the body with its main part intermediate its ends in contact with said cell, a simulation of a radiator constructed as a unit and including a supporting bar separately formed from said unit and removably supported thereby, and an electrical device secured to said supporting bar.

2. A toy vehicle including a body formed of fibrous material and having a bore of substantially the size of an electric cell in the front end thereof and a hole bored through the sides intersecting said bore, a cell in said bore, a conducting bar extending through the side holes for contact with said cell, a simulation of a radiator constructed as a unit and including a supporting bar, and an electrical device secured to said supporting bar.

3. A toy vehicle including a body having a chamber therein to receive an electric cell, a conducting bar supported by said body in electrical contact with said cell, a simulation of a radiator constructed as a unit and including a supporting bar separately formed from said unit and removably supported thereby, said unit being pivotally connected to said body at one end thereof, an electrical device secured to said supporting bar for contact with said conducting bar, and means for securing the end of the radiator unit opposite said pivot.

4. A toy vehicle including a body having a chamber therein to receive an electric cell, a conducting bar supported by said body in electrical contact with said cell, a simulation of a radiator constructed as a unit and including a supporting bar separately formed from said unit and removably supported thereby, an electrical device secured to said supporting bar for contact with said conducting bar, and a conducting screw secured to said unit for electrical contact with the side of said cell.

5. A toy vehicle including a body of fibrous material having a bore extending into the front end thereof, and a radiator unit comprising a bracket adapted to fit in said bore for the support of said unit and having means for the support of an electric cell, and a simulation of a radiator comprising a part of said unit.

6. A toy vehicle including a body having a chamber therein, and a radiator unit comprising a bracket adapted to fit in said chamber as a support, said unit also including a supporting bar for electric lamps, a simulation of a radiator secured to said bracket, a conducting bar for contact with said lamps, and a cell supported by said bracket for electrical contact with said conducting bar.

7. A toy vehicle including a body of fibrous material having a hole bored into the front end thereof and with slots intersecting said hole, and a radiator unit comprising a bracket to fit said hole as a support with a supporting bar secured to said bracket to support electric lamps and a conducting bar to contact with the terminals of said lamp, said bars being positioned to fit into said slots, and a cell held by said bracket in electrical contact with said conducting bar.

8. A toy vehicle including a body having a chamber therein to receive an electric cell and a radiator unit comprising a simulation of a radiator having backwardly extending ears at the bottom both pivotally attached to the bottom of the body and a cap projecting backwardly over the top of the body and secured by a fastening extending into the body.

9. A toy vehicle including a body having a chamber therein to receive an electric cell and slots extending inwardly on opposite sides of said chamber, a conducting bar located in said slots and projecting on opposite sides of the body, a supporting bar extending across the body within said slots and insulated from said conducting bar, lamps secured to said supporting bar, and a radiator unit comprising a simulation of a radiator secured to said body and pressing said bars inwardly in said slots.

HAROLD D. ALLEN.