May 5, 1931. J. E. BRUBAKER 1,804,313

TOY

Filed May 26, 1930

Fig. 1.

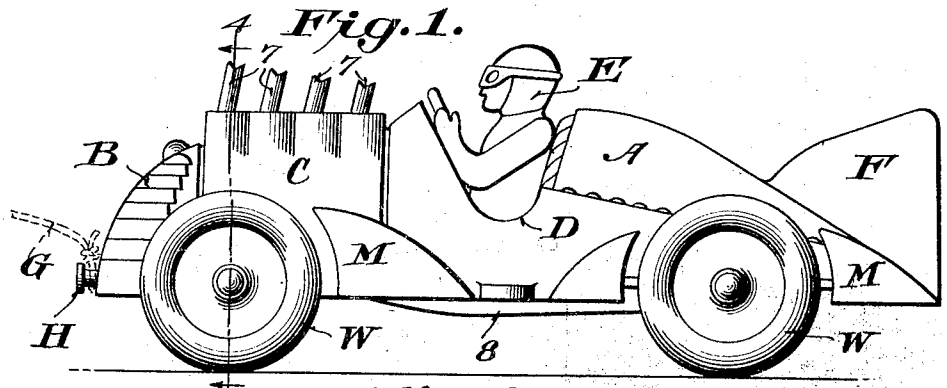


Fig. 2.

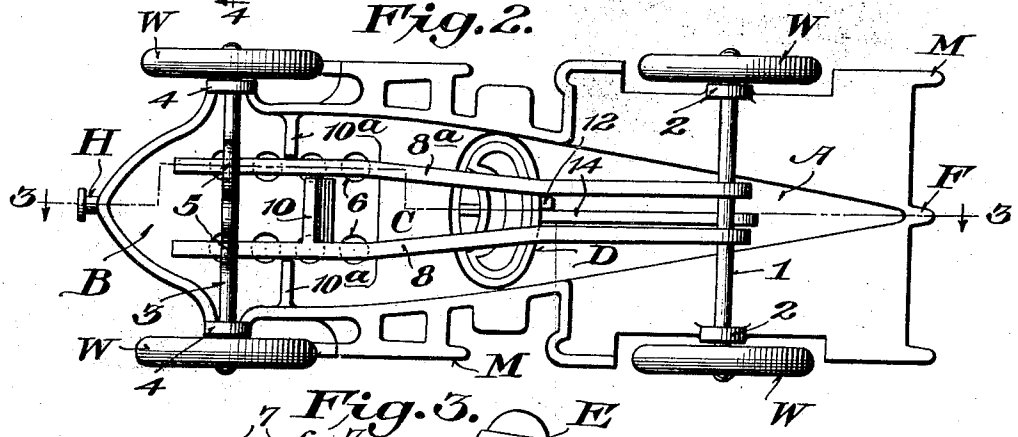


Fig. 3.

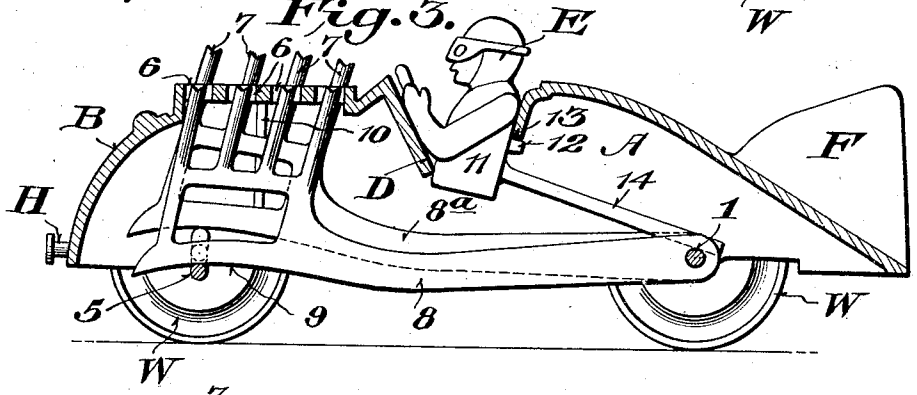
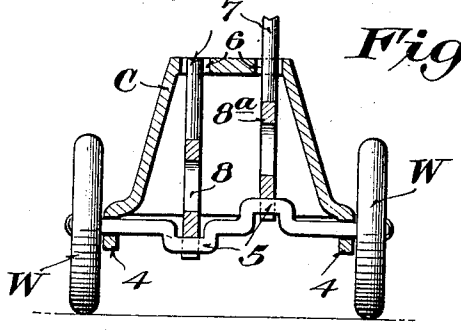


Fig. 4.



Inventor

Jacob E. Brubaker,

By D. P. Wolhaupter

Attorney

Patented May 5, 1931 1,804,313

UNITED STATES PATENT OFFICE

JACOB E. BRUBAKER, OF LANCASTER, PENNSYLVANIA, ASSIGNOR TO THE HUBLEY MANUFACTURING CO., OF LANCASTER, PENNSYLVANIA, A CORPORATION OF PENNSYLVANIA

TOY

Application filed May 26, 1930. Serial No. 455,782.

This invention relates to toys, having an animated feature.

One of the objects of the invention is to provide a toy having novel means for producing the effect of moving elements associated with an engine to indicate the operation thereof.

A further object of the invention is to provide a simple and practical construction which may be easily assembled and which is strong and durable, thereby providing a practical toy which will give long service and pleasure to the user.

With the above and other objects in view which will more readily appear as the nature of the invention is better understood, the same consists in the novel construction, combination and arrangement of parts hereinafter more fully described, illustrated and claimed.

In the drawings, wherein like characters of reference designate corresponding parts in the different views:—

Figure 1 is a side elevation of the improved toy.

Figure 2 is a bottom plan view thereof.

Figure 3 is a vertical, longitudinal sectional view taken on the line 3—3 of Fig. 2.

Figure 4 is a vertical cross-sectional view taken on the line 4—4 of Fig. 1.

In carrying the present invention into effect it is proposed to provide a toy whose animated feature consists of providing an element which may be made to appear and disappear from a part of the toy, said element being adapted to be formed, painted or otherwise styled to represent or simulate the novel feature of the toy in which it is embodied to imitate a feature of the operation thereof.

In the example of the invention shown in the accompanying drawings the body of the toy A is preferably in the form of a single casting simulating an automobile including the radiator B and engine C but possessing a novel feature in connection with the holding of the figure E, simulating the driver, in place, as will presently appear. The rear of the body is preferably of torpedo-like formation and has the upstanding foil or fin F formed therewith, as are also the mudguards M. The entire body is mounted upon traction wheels W so that the toy may be pulled along by the user through the medium of a cord or other connection G attached to the stud H, formed at the front of the body.

The rear wheels W are connected by an axle 1 journalled in the bearing 2 provided for that purpose, and the front wheels of the toy are mounted upon an axle 3 also mounted in the bearings 4 at the front of the body and provided with a plurality of crank portions 5.

The upper wall of the engine C is provided with a plurality of openings 6 for the purpose of receiving the elements 7 which are projected in a reciprocating manner above the upper wall of the engine C as the toy is pulled or moved along the ground or other surface. The said members 7 are carried by a pair of levers 8 and 8*a* fulcrumed at their rear ends on the axle 1 while their front ends 9 rest upon the oppositely disposed crank portions 5—5 of the front axle 3. Thus, it will be apparent that when the wheels turn the front axle 3, the cranks 5 will cause the reciprocation of the front ends of the levers to project the members 7 through the openings 6. For the purpose of maintaining the front ends of the levers in proper spaced relation, the lever 8 may be provided with a laterally offset portion 10 and the body may be provided with the inwardly directed lugs 10*a*.

Referring to the figure E representing the driver, it is pointed out that the body 11 of the figure is adapted to fit into a tapered socket-like seat D and is provided with an offset lug portion 12 for engaging with the wall 13 of the seat. Also the body is provided with an integral, offset, relatively long keeper rod portion or arm 14 whose extreme end passes over the top of the axle 1 as shown in Figure 3 when the toy is assembled.

In assembling the toy the figure representing the driver is placed into the tapered socket providing a seat D before the rear axle 1 is placed in position. When the rear axle is threaded through the bearings 2 it first receives the lever 8 loosely thereon and then the axle engages the underside of the extension 14 of the figure and forces the same upward so that the lug 12 on the figure is forced or

tensioned against the wall 13 of the seat, thus firmly locking the figure in place. The other lever 8*a*, is of course, threaded on the axle 1 before it is passed through the opposite bearing 2 to receive the other wheel W. When the rear axle 1 and wheels W are assembled, they therefore constitute a support for the levers 8 and 8*a* as well as the means for locking the figure E in place.

In connection with the elements 7 it is pointed out that the same may be painted any desired color, such for example as red or red and gold to simulate exhaust flame coming from the cylinders of the motor or they may be painted in another color to simulate the action of overhead values or pistons operating through the top of the motor block.

With further description, it is thought that the many features and advantages of the invention will be readily understood by those skilled in the art, and it will of course be understood that changes in the form, proportion, and details of construction may be resorted to without departing from the spirit of the invention or the scope of the appended claims.

I claim:—

1. A pull toy comprising a body having a plurality of openings, a rear axle, wheels for the rear axle, levers pivotally mounted on said rear axle and having elements thereon adapted to be projected through said openings, a front axle provided with cranks on which the levers rest, and wheels for said front axle whereby the operation thereof will cause the end of said levers opposite their point of pivotal support to cause the reciprocation of said elements through said openings.

2. A pull toy comprising a body simulating an automobile and having openings in the portion thereof simulating the engine, a rear axle, wheels therefor, a plurality of levers pivotally supported on said rear axle and having their opposite ends extending towards the front of the body and provided with elements adapted to project through said openings, a front axle having cranks for alternately raising and lowering said levers, wheels for said front axle and means for spacing the front ends of the levers in proper operating relation.

3. A toy of the class described comprising a body having a socket for receiving a toy figure and a member constituting an abutment, means on the figure for engaging a portion of the body, other means on the figure adapted to engage said abutment and be placed under tension to maintain the figure in the seat.

4. A toy of the class described comprising a body having a tapered socket providing a seat, a figure adapted to be positioned in said seat, means on the figure for engaging a portion of the body within the limits of the seat, an offset member carried by the figure, and means in the body for engaging said offset member of the figure to lock the figure in the seat.

5. A wheeled toy of the class described comprising a body having a tapered socket providing a seat, a figure adapted to be positioned in said seat, means on the figure for engaging the portion of the body within the limits of the seat, an axle member, and an offset member carried by the figure and engaging over said axle to lock the figure in the seat.

In testimony whereof I hereunto affix my signature.

JACOB E. BRUBAKER.