May 24, 1932. D. A. CARLSTROM 1,859,617

VEHICLE TOY

Filed June 27, 1931

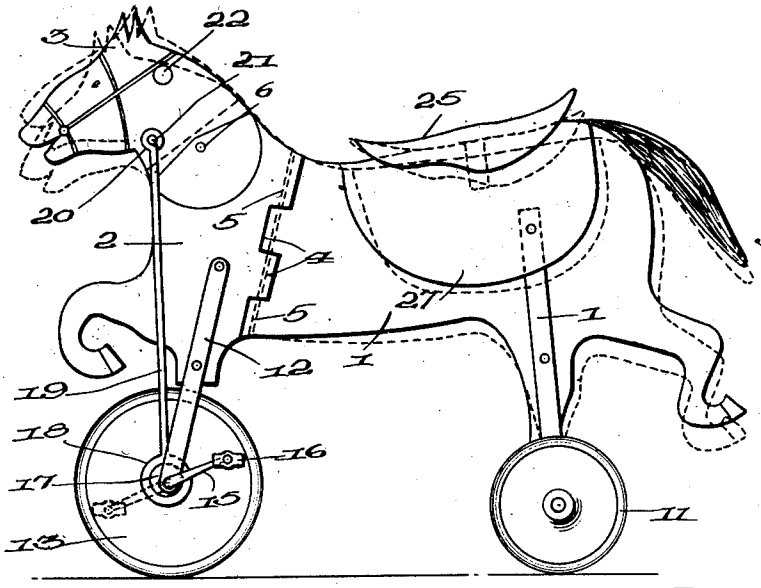


Fig. 1.

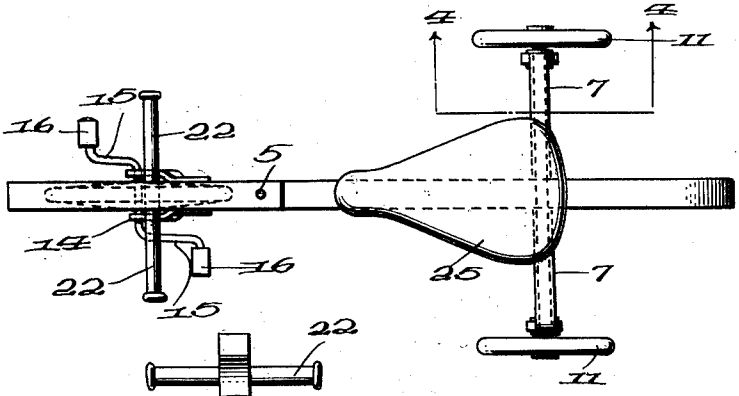


Fig. 2.

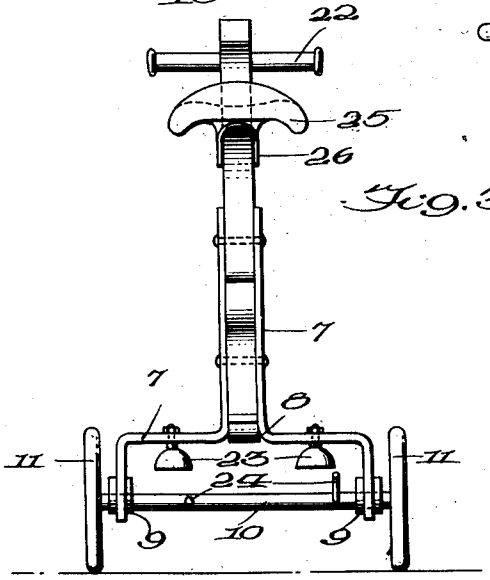


Fig. 3.

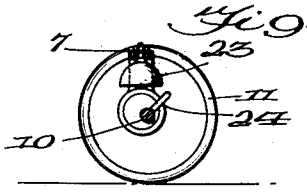


Fig. 4.

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UNITED STATES PATENT OFFICE

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VEHICLE TOY

Application filed June 27, 1931. Serial No. 547,390.

This invention relates to improvements in that class of toys known as polycycles, velocipedes, tricycles and the like.

The object of the invention is to provide a polycycle in the form of a horse, provided with a saddle for a seat and operating pedals for the feet.

A further object is to provide means to simulate the motions of a horse while the top is being ridden.

A still further object is to provide means for steering by pivoting the horse's neck and having the front wheel controlled thereby.

A still further object is to provide an apparatus that may be easily propelled by a small child and which will move up and down at the rear end simulating the gallop of a horse while the head bobs up and down at the same time, both motions being accompanied by the striking of bells.

The invention is illustrated in the accompanying drawings, in which:—

Figure 1 is a side view of the toy.

Figure 2 is a top plan view.

Figure 3 is a rear view.

Figure 4 is a sectional view on line 4—4 of Figure 2.

Referring directly to the drawings the main body of the horse is represented by the numeral 1, and has pivotally attached therewith the front portion 2, by means of the dove tail portions 4 on each body portion and a pivot pin 5. A head portion 3 is pivoted to the front portion 2 by the pin 6 so that it may be moved to simulate a nodding action noticeable in a galloping horse.

Secured to the back portion 1 are brackets 7 which extend downward alongside the body to the lower edge as at 8 and are then bent outward and then downward to rotatively support eccentrics 9 which are fixed to a shaft 10 to the ends of which are rigidly secured wheels 11. The front portion 2 has secured thereto straps 12 in a manner similar to the straps 7. These straps 12 extend downward and support a driving shaft 14 on which is rigidly secured a wheel 13. The shaft 14 is bent into a double crank form as at 15 and provided with pedals 16 at each end. Secured to the wheel 13 is an eccentric 17 about which passes an eccentric strap 18 to which is connected a rod 19. The rod terminates in an eye 20 which receives a pin 21 which is secured to the head 3.

Handles 22 are secured to and extend from each side of the head to provide means for steering the toy. Attached to the rear brackets 7 are bells 23 which may be of different pitch and which are struck by striker bars 24 carried by the shaft 10 and rotatable therewith. A saddle or seat 25 is provided with a U shaped clip 26 on the under side to clamp the seat over the main body portion at any part of its length to thereby give an adjustment to allow children of different sizes to be fitted. The seat or saddle may be provided with a saddle cloth 27.

In riding such a toy the saddle is adjusted to the right position and the toy propelled by turning the cranks 15 on the shaft 14. The turning of this shaft turns the eccentric 17 causing the head to pivot on the pin 6 simulating the nodding action of a horse's head. The rear wheels 11 turning the shaft 10 likewise provides an up and down motion for the body portion 1. Simultaneously the bells 23 are struck by the bars 24 attached to shaft 10. The toy may be steered by turning the front portion 2 on the pivot pin 5 thereby turning the driving wheel 13.

Such a toy would provide a great deal of amusement and exercise for small children and at the same time be cheap and easy to manufacture and strong and durable in use.

What is claimed is:

1. A polycycle comprising a horse simulated body portion made up of a back portion, a front portion pivotally secured thereto, a head portion pivotally secured to said front portion, brackets secured to the front portion, a driving shaft carried by said brackets, a wheel on said shaft, means connected to said wheel and said head portion to impart a nodding action to said head portion, a second set of brackets secured to said back body portion, a shaft supported thereby, wheels on said shaft and means connected to said shaft to impart an up and down motion to said back body portion.

2. A polycycle comprising a horse simu-

lated body portion made up of a back portion, a front portion pivotally secured thereto and a head portion pivotally secured to said front portion, brackets secured to said front portion, a driving shaft carried by said brackets, a wheel on said shaft, an eccentric on said wheel, a rod connected to said eccentric at one end, the other end being connected to said head portion to impart a nodding action to said head portion, a second set of brackets secured to said back body portion, eccentrics rotatably carried by said brackets, a shaft secured to said eccentrics, wheels on said shaft whereby the rotation of said wheels will impart an up and down motion to said back body portion, bells carried by said second set of brackets and means secured to said second mentioned shaft for striking said bells during rotation of said shaft.

In testimony whereof I affix my signature.

DAVID A. CARLSTROM.