

June 28, 1927.

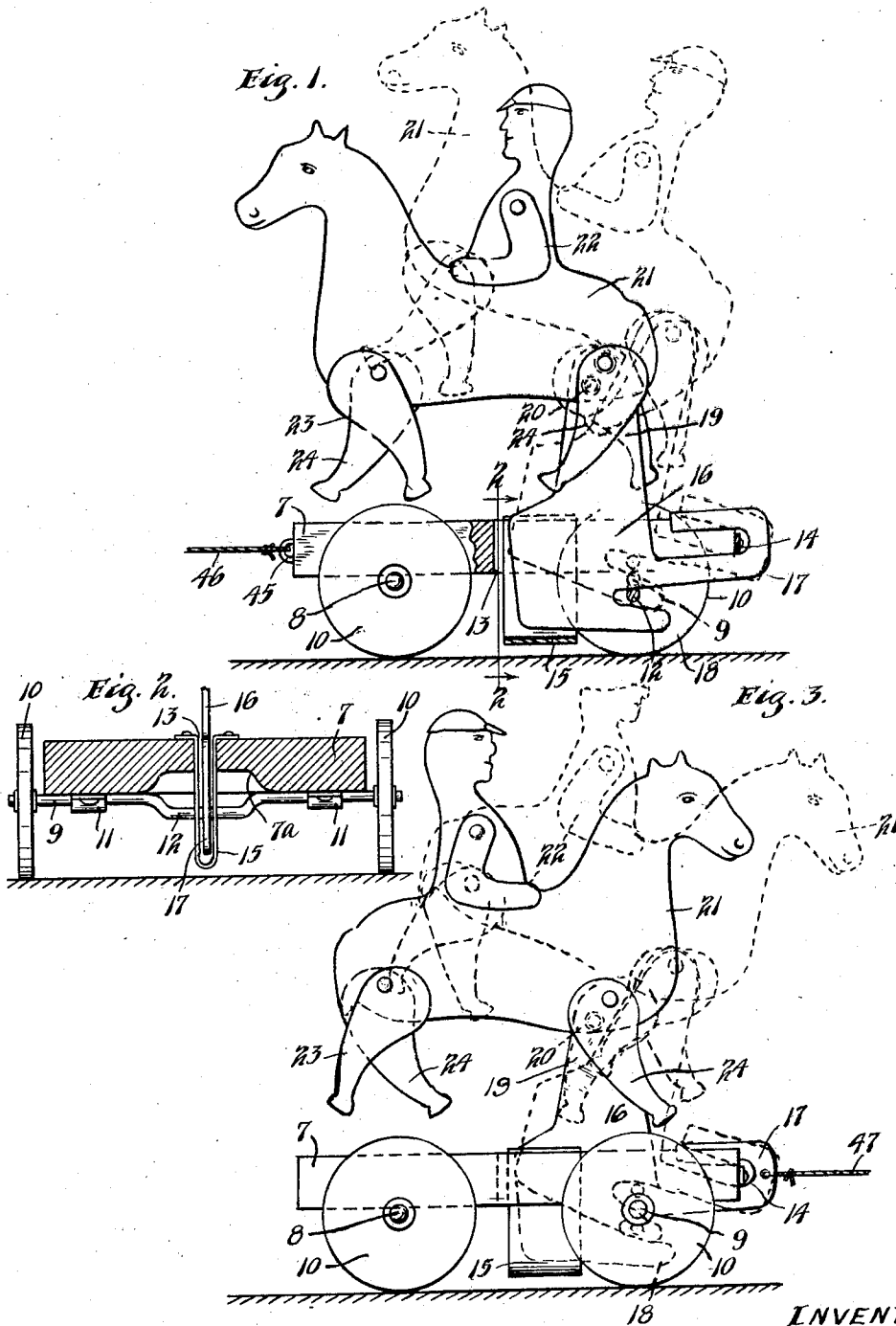
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FIGURE WHEELED TOY

Filed Oct. 4, 1926

2 Sheets-Sheet 1



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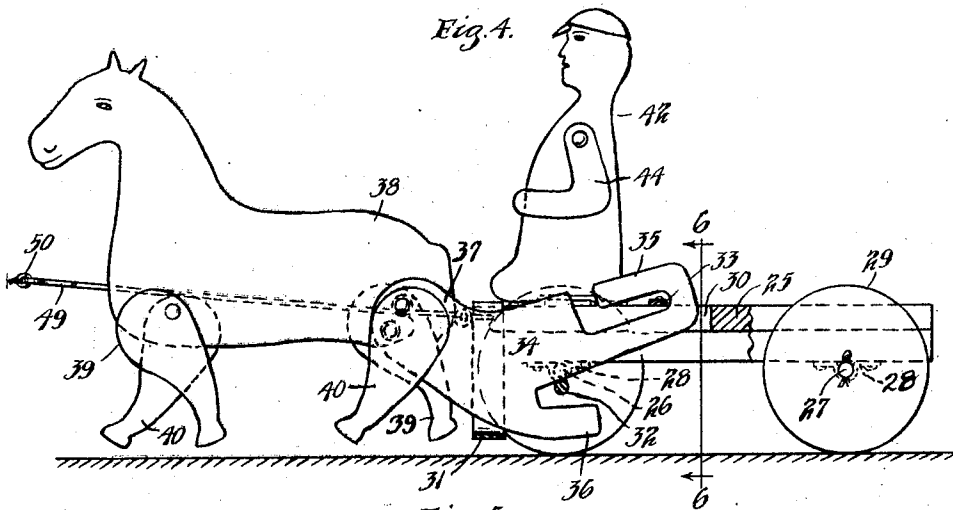
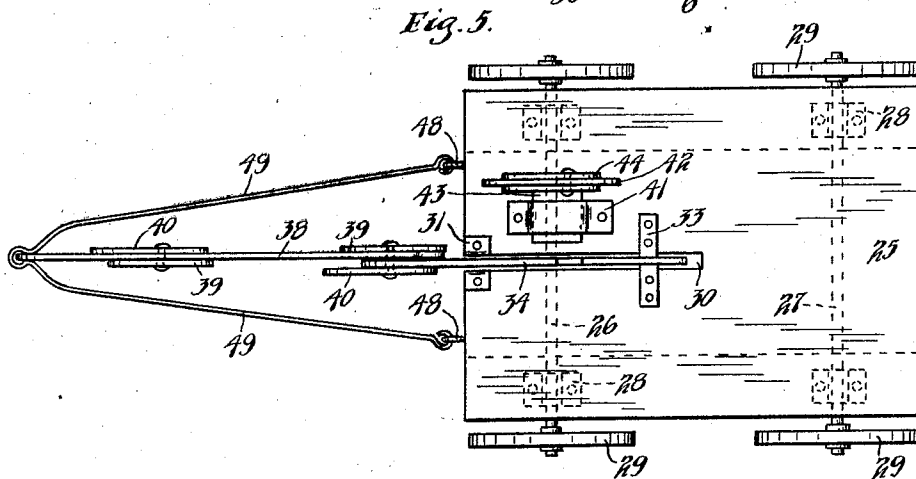
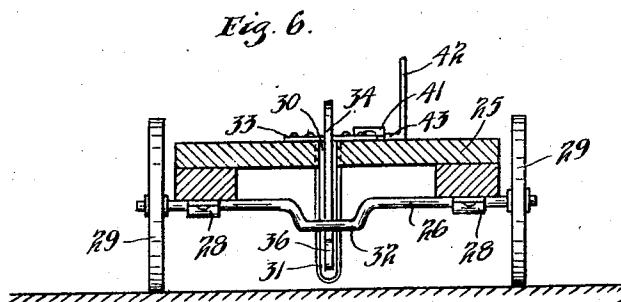
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FIGURE WHEELED TOY

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2 Sheets-Sheet 2



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FIGURE WHEELED TOY.

Application filed October 4, 1926. Serial No. 139,353.

This invention relates to an improved and novel toy. It is an object of the invention to provide a toy comprising a truck and a toy figure adapted to be oscillated as the truck is moved.

It is a further object to provide means in such a device for readily attaching and detaching the toy figure from the truck.

Another object of the invention is to provide a toy figure having one or more pairs of legs loosely pivoted thereto, the legs of each pair being adapted to be normally held with the outer extremities thereof spaced apart.

These and other objects of the invention will more fully appear from the following description made in connection with the accompanying drawings wherein like reference characters refer to the same or similar parts throughout the various views; and in which,

Fig. 1 is a view in side elevation of one form of the device certain of the parts being broken away, certain of the parts being shown in full lines in one position and in dotted lines in another position;

Fig. 2 is a vertical section taken on the line 2—2 of Fig. 1;

Fig. 3 is a view similar to Fig. 1 showing a slightly different arrangement of the parts of the invention;

Fig. 4 is a view in side elevation of a slightly different form of the invention, certain of the parts being broken away;

Fig. 5 is a plan view of the device shown in Fig. 4; and

Fig. 6 is a vertical section taken on the line 6—6 of Fig. 4.

Referring to the device shown in Figs. 1 and 2 of the drawings, a wheeled truck is shown comprising a truck body or base 7, axles 8 and 9, and traction wheels 10 secured to the ends of axles 8 and 9 at either side of the truck body. Axles 8 and 9 are secured to the truck body by means of strap bearings 11. A crank portion 12 is provided in the axle 9, preferably centrally thereof. The truck body 7 is provided with a longitudinal slot 13 extending preferably from adjacent the central portion of the truck body to one end thereof, and a recessed portion 7^a at the bottom thereof adjacent the crank portion 12 of the axle 9. A pivot 14 is secured to the truck body, preferably at the slotted end thereof, the pivot 14 extending transversely across the slot 13.

The pivot 14 is preferably constructed in the shape of a small bar for convenience in attachment to the end of body 7; other construction of pivot 14 may be made if desired.

A U-shaped guide plate 15 fits within the slot 13 adjacent the central portion of the truck body, the guide plate being secured to the truck body, and extending some little distance below the same. An irregular-shaped plate 16 is provided having a hook arm 17 extending from one side thereof, the arm being first extended outwardly from the main body portion of the plate, then upwardly, and then inwardly toward the main body portion. A second hook arm 18 is formed on the lower side of the plate, the arm 18 extending toward the direction first taken by the arm 17. A third figure connecting arm 19 is formed on the plate 16, the said arm being shown as extending upwardly from the main body portion of the plate and being connected, as by rivets 20, to the rear end of a toy figure 21 illustrated as being in the form of a toy horseman, the rider of the horse being formed integral with the horse's body. A pair of arms 22, one at either side of the rider's body, are loosely pivoted thereto. Two pairs of legs, each pair comprising a leg 23 and a leg 24, are adapted to be pivotally secured one to the front and one to the rear portion of figure 21 for loose swinging movement in respect thereto. The said legs 23 and 24 are of considerable greater width at their tops than at their bottoms, the legs 23 being connected to their respective pivots adjacent the top rear edge thereof, the legs 24 being connected to their respective pivots adjacent the top front edge thereof. The legs will, accordingly hang, as shown in Fig. 1, in pairs, the respective legs of each pair being placed at opposite sides of the figure 21 and the lower extremities of the legs being spaced apart to simulate a walking or trotting position that would naturally be taken by a horse's legs when the horse was in motion. A staple 45 is fixed in the front end of body 7, a draw string 46 being secured to the staple.

The structure illustrated in Fig. 3 is the same as that illustrated in Figs. 1 and 2 with the exception that the toy figure 21 is turned around to face the opposite direction from that taken by the figure 21 in Fig. 1, and the figure 21 is connected at its front end to the arms 19 of the plate

16 rather than at its rear end, while a draw string 47 is secured to the outer end of hook arm 17.

Referring to Figs. 4, 5 and 6, a wheeled truck is illustrated comprising a truck body or base 25, front axle 26, rear axle 27, the said axles being secured to the truck body by bearing straps 28, and traction wheels 29 secured at either end of the axles 26 and 27 at either side of the truck body 25. A slot 30 is provided in the truck body extending rearwardly from the front end thereof to adjacent the center of the body. A U-shaped guide 31 is secured to the front end of the truck body fitting within slot 30 and extending some little distance below the bottom of the truck body. The front axle 26 has a crank portion 32 formed thereon. A pivot 33 is secured to the top of the truck body adjacent the rear end of the slot and extends transversely across the slot. The pivot 33 is preferably constructed in the shape of a small bar for convenience in attachment to the top of body 25; other construction of pivot 33 may be made if desired. A plate 34 is provided having the hook arms 35 and 36 corresponding respectively to the hook arms 17 and 18 of the plate 16. A forwardly extending arm 37 is provided, the arm being secured to the rear portion of a toy figure 38 corresponding to the figure 21 with the exception that the rider with arms pivoted thereto is left off of the toy figure 28. Legs 39 and 40 similar in construction to legs 23 and 24, are secured to the toy figure 38. A clip 41 is secured to the forward portion of the truck body 25 and is adapted to receive a removable figure 42 simulating a wagon driver, the figure 42 having an arm 43 at its lower end adapted to be releasably engaged within the clip 41. Arms 44 are pivotally secured at either side of the figure 42 for free swinging movement. A pair of hooks 48 are secured to either side of the front end of the truck body 25, a bail 49 extending around the front portion of toy figure 38 and being secured to the hooks. A draw string 50 may be secured to the front end of bail 49.

Referring to the structure illustrated in Figs. 1 and 2, considering the plate 16 to be detached from the truck, the plate 16 is swung upwardly so that arm 17 is directed, generally, downwardly. Arm 17 is then inserted within the slot 13 and the plate 16 is turned so that the arm 17 will be hooked about the pivot 14. Plate 16 will then be swung about pivot 14 until the plate is held in somewhat raised position whereupon the axle 9 will be rotated until the hook arm 18 is in engagement with the crank portion 12 of the axle 9. The forward end of the plate will now fit within guide 15. The device is now ready for

use. The truck may be pushed or drawn by draw string 46 across a level surface. As the crank 9 revolves, oscillatory motion will be transmitted to the plate 16 by the crank portion 12 of shaft 9. Inasmuch as the hook arm 17 is hooked over pivot 14 the plate 16 will swing about the pivot 14 as an axis, the main portion of the plate swinging first up and then down. As the toy figure 21 rides upwardly and downwardly, due to the imparted oscillating motion, arms 22 will swing back and forth on their pivot and the legs 23 and 24 will also swing on their pivots. A very realistic riding action is thus attained. When the arm 19 is connected to the forward portion of the toy figure 21 as shown in Fig. 3 due to the oscillatory motion imparted to the toy figure, a bucking effect will be obtained, the rear end of the toy figure being raised to the dotted position illustrated in Fig. 3 at the height of the buck.

When the structure illustrated in Figs. 4, 5 and 6 is used, an oscillatory motion will be imparted to the toy figure 38 corresponding to that taken by a driven horse in actual travel. The toy is preferably drawn by draw string 47. It can be seen that a very realistic toy is provided which travels with almost life-like movement.

The plate 16 and the toy figure attached thereto, may be detached from the truck body 7 by merely raising the plate to the position illustrated in dotted lines in Fig. 1 or in dotted lines in Fig. 3, rotating the shaft 9 to disengage the hook arm 18 therefrom and then disengage the hook arm 17 from the pivot 14. Plate 16 and toy figure 21 can then be placed flat against the truck body 17 and the toy will be arranged in a compact form for shipment in a small box, or for other purposes.

The device illustrated in Figs. 4, 5 and 6 may be assembled and disassembled in the same manner as above described. The toy figure of the driver may be readily released or attached to clip 41. As the device is drawn by bail 49, the toy figure 38 will oscillate about pivot 33 to correspond to the action of a driven horse.

Various types of toy figures may be connected to the figure connecting arms of the devices to reproduce various actions.

It will, of course, be understood, that various changes may be made in the form, details, arrangement and proportions of the various parts without departing from the scope of the present invention, which, generally stated, consists in the matter shown and described and set forth in the following claims:

What is claimed is:

1. A toy comprising a base, an axle shaft journaled in said base, said shaft having a crank portion formed therein, traction

wheels secured to said shaft, a pivot secured to said base, a member having a portion adapted to hook over said pivot for swinging movement thereabout, said member having another portion adapted to be engaged with the crank portion of said shaft, whereby as said traction wheels are rotated oscillatory motion will be imparted to said member about said pivot as an axis, said member being releasable from said pivot and said shaft.

2. A toy comprising a base having a vertical longitudinally extending slot formed therein, an axle shaft journaled in said base, said shaft having a crank portion formed thereon, traction wheels secured to said shaft, a pivot secured to said base and extending across said slot adjacent one end thereof, a member adapted to fit within said slot and to hook over said pivot, said member being also adapted to be engaged with the crank portion of said shaft, whereby as said traction wheels are rotated oscillatory motion will be imparted to said member about said pivot as an axis, said member being releasable from said pivot and said shaft.

3. A figured wheeled toy comprising a substantially rectangularly shaped base having a vertical slot therein extending longitudinally thereof, an axle extending transversely of said base and across said slot, said axle having an offset portion formed therein, wheels secured to said axle, a pivot secured to said base and extending transversely across said slot at a point remote from said axle and a removable irregularly shaped plate adapted to be disposed in said slot, said plate having a hook arm formed at one end thereof adapted to be hooked over said pivot, and the bottom edge of said plate being adapted to rest on the offset portion of said axle, whereby as said axle is rotated when said plate is so positioned, said plate will oscillate about said pivot, said plate being removable from said slot by unhooking said hook arm from said pivot and raising the plate out of said slot.

4. A toy comprising a base, an axle journaled in said base having a centrally offset portion therein, traction wheels secured to said axle, a pivot secured to said base, a

detachable plate having an arm adapted to be hooked over said pivot and also having an arm adapted to be hooked over the offset portion of said shaft, whereby when said plate is so positioned the offset portion of the crank will cause said plate to oscillate about said pivot as said wheels are turned, said plate being disengageable from said axle and pivot by unhooking said respective arms therefrom.

5. A toy comprising a base, an axle journaled in said base, said axle having a crank portion therein, traction wheels secured to said axle, said base having a vertical slot therein, a pivot secured to said base and extending across said slot adjacent one end thereof, a U-shaped guide member fitting within said slot at the opposite end thereof from said pivot and a plate adapted to be inserted within said slot and U-shaped member, said plate having an arm adapted to hook over said pivot and having an arm adapted to hook over said crank portion of the axle, whereupon as said traction wheels are rotated an oscillatory motion will be given to said plate about said pivot as an axis.

6. A toy figure having a body portion, two legs thereon and a single pivot secured in said body portion and upon which each of said legs are loosely mounted for swinging movement thereabout, said respective legs being oppositely counterbalanced on said pivot so that the lower extremities of the legs will normally be held apart to simulate walking position.

7. A toy figure comprising a body portion and a pair of legs, said legs being disposed at either side of said body portion, the upper portions of each of said legs being loosely pivoted on a single pivot extending through said toy figure, one of said legs being centrally offset forwardly in respect to said pivot, the other of said legs being centrally offset rearwardly in respect to said pivot, whereby the lower extremities of said legs will normally hang in spread relation to each other.

In testimony whereof I affix my signature.

JOHN A. EKELUND.