Nov. 23, 1926. 1,608,092

G. W. FERGUSON

FIGURED WHEELED TOY

Filed March 31, 1921 2 Sheets-Sheet 1

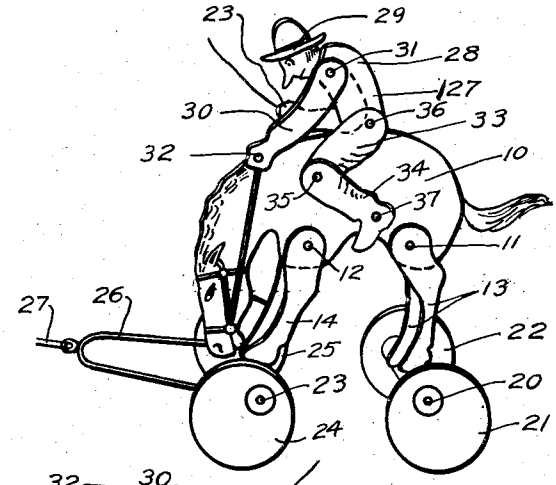


Fig. 1

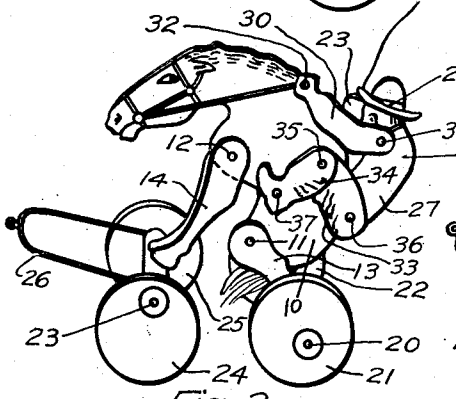


Fig. 2

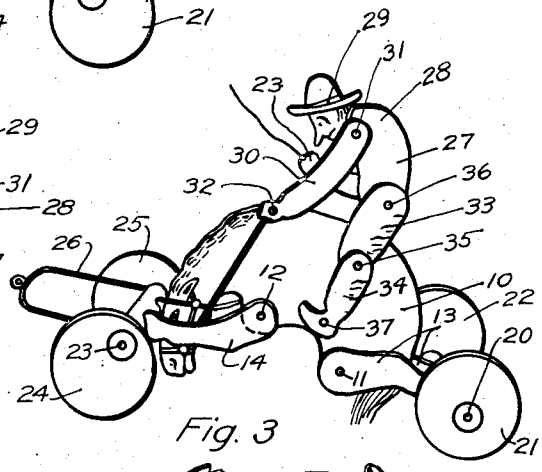


Fig. 3

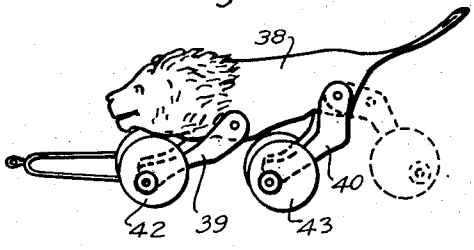


Fig. 4

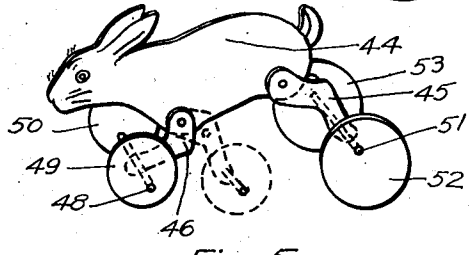


Fig. 5

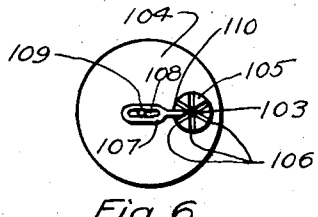


Fig. 6

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G. W. FERGUSON

FIGURED WHEELED TOY

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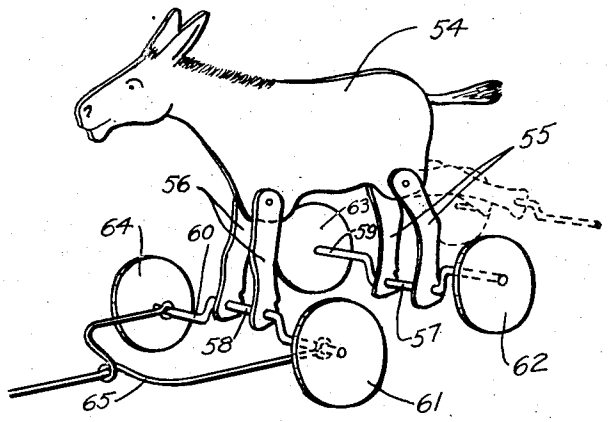


Fig. 7

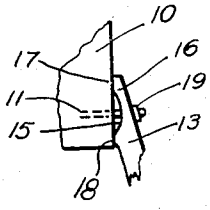


Fig. 10

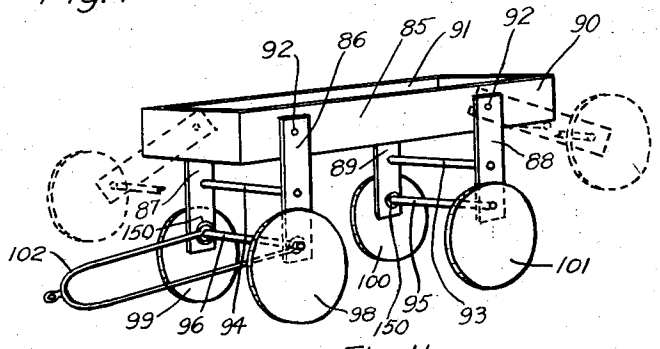


Fig. 11.

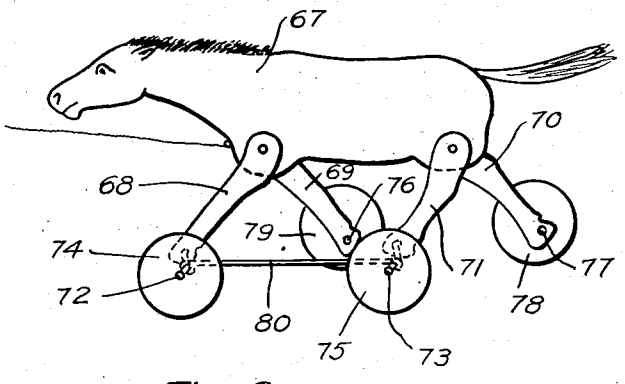


Fig. 8

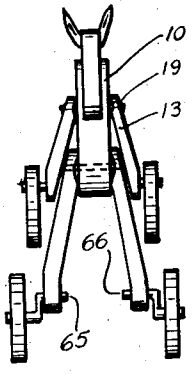


Fig. 9

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Patented Nov. 23, 1926. 1,608,092

UNITED STATES PATENT OFFICE.

GEORGE W. FERGUSON, OF MINNEAPOLIS, MINNESOTA.

FIGURED WHEELED TOY.

Application filed March 31, 1921. Serial No. 457,408.

My invention relates to toys and particularly to the type of toy mounted on wheels and has for its object to provide a toy having a body portion with limbs or members pivoted thereto, which limbs or members are mounted on wheels adapted to make the toy pass through grotesque motions and are adjustably positioned on said body portion so that the relation of the limbs or members to the body portion may be varied at will so as to alter the relative movements of the toy.

In carrying out the objects of the invention I provide a pivot for said limbs or members whereby the same are held in frictional contact with the body so as to permit the limbs to be moved relative to the body, said friction pivots holding the limbs properly positioned in place when the toy is operated.

The full objects and advantages of my invention will appear in connection with the detailed description thereof and are particularly pointed out in the claims.

In the drawings illustrating the application of my invention in one form:—

Fig. 1 is a perspective view of one form of my invention.

Fig. 2 is a view similar to Figure 1 showing the parts moved in relatively different positions.

Fig. 3 is a view similar to Figure 2 showing the parts in still another position.

Fig. 4 is a perspective view of another form of the invention.

Fig. 5 is a perspective view of still another form of the invention.

Fig. 6 is an elevational view of one form of wheel which may be applied to my invention.

Fig. 7 is a perspective view of still another form of my invention.

Fig. 8 is a view of a modification of the invention similar to Figure 7.

Fig. 9 is an end view of a device similar to that shown in Figure 7.

Fig. 10 is a detail view showing the joint of one of the limbs or members to the body portion of the invention.

Fig. 11 is a perspective view of another form of the invention.

In the form of the invention shown in Figure 1, I employ a body portion 10 in the shape of a bucking broncho which has pivoted to it at 11 and 12 pairs of legs 13 and 14. The method of attaching these legs is best shown in Figure 10. The end of each of the legs 13 and 14 is formed reduced in section at 15 so as to give a certain amount of flexibility to the end 16 of the limb which is caused to bear upon the body portion 10 at 17 and 18. The pivot 11 may be an ordinary rivet provided with a washer 19. In applying this device it can be readily comprehended that as the rivet is tightened down the portion 16 is caused to bend slightly and to bear upon body 17 so as to hold the limbs 13 and 14 by means of the friction between the portions 17 and 18 of said limbs and the body 10 adjustably positioned on said body portion. Movement of the limbs 13 and 14 can hence be effected against the action of the friction and may be consequently held in any desired position by means of the same.

An axle 20 passes directly through both of the legs 13 and has pivotally attached to its ends in eccentric position a pair of wheels 21 and 22. In a similar manner an axle 23 passes through legs 14 which has attached to it in eccentric position wheels 24 and 25. Pivoted on axle 23 is a draw bar 26 to which may be attached a string 27 for drawing the toy about on the floor. As the toy is drawn about on the floor the wheels 21, 22, 24 and 25 cause the figure mounted on it to pass through numerous grotesque motions which are continuously varied as the said wheels change their relative positions on the axles 20 and 23.

In addition to the figure of the broncho I provide a rider 127 mounted on the back of the same which comprises a body 28 having a head 29 rigidly fastened thereto with one arm pivoted to said body at 31 and also pivoted to a portion of the body 10 of the animal at 32. The other arm 33 is loosely pivoted to the body 28 at 31 while a pair of legs formed of two members 33 and 34 are pivoted to each other at 25, to the body 28 at 36 and to the body of the horse 10 at 37. The rider is hence capable of passing through a number of motions relative to the horse without becoming detached from the same. Two positions of the rider on the horse may be seen in Figures 2 and 3. To indicate the various relative positions that the limbs 13 and 14 and body 10 of the animal may have, reference may be had to Figures 2 and 3 which show the same in two extreme positions. In Figure 2 the horse is shown as standing substantially on its hind legs in such a position as to cause the rider to appear to fall off. In Figure 3 the horse is shown as having its legs spread apart as in the act

squarely against the inner or bottom wall of the said socket. The operator then uses a hammer, striking the outer plug in the direction of the length of the axle whereby the wheel is jarred loose from the axle and the key thereof and may be quickly removed.

Having described the invention what is claimed is—

A device adapted to be used for removing a wheel from an axle upon which it is keyed comprising a body provided at its opposite ends with alined sockets of different sizes, and anvil plugs fitting in the sockets.

In testimony whereof I affix my signature.

CASH A. CLEMONS.

rigidly attached to it a disk like member 105 which is provided with a series of notches or grooves 106. A slidable lever 107 provided with a slot 108 which is movable on a screw 109 secured to wheel 104, has a finger 110 adapted to engage into any of the various notches 106 in the disk 105 said member is moved into its engaging position. It can hence be clearly seen by rotating the axle 103 with the disk 105 thereon relative to the wheel 104 that when one of the corresponding notches 106 comes opposite the finger 110, said finger may be inserted into one of said notches to securely hold the device in place. This locking device, though not shown in detail in any of the drawings, can clearly be attached to any of the devices shown in which a single axle carries two wheels. The advantages of this form of the invention lie in the fact that any peculiar movement of the toy which appeals to the user may be maintained.

The advantages of my invention are manifest. The various toys may have their limbs set relatively to each other so as to give any manner of repetitions of the same or similar movements of the toy as it is drawn about on the floor. When the user becomes tired of the present movements of the toy the limbs may be reset relative to the body so that an entirely new set of movements may be given to it. In this manner the user will never tire of the toy which in reality becomes a new toy having a different appearance and passing through different motions for each resetting of the limbs relative to the body.

In accordance with the patent statutes, I have described the principles of operation of my invention, together with the apparatus which I now consider to represent the best embodiment thereof, but I desire to have it understood that the construction shown is only illustrative and that the invention can be carried out by other means and applied to uses other than those above set forth within the scope of the following claims.

I claim:

1. A toy comprising a body in the shape of an animal, legs pivoted to said body, said legs being formed with portions spaced from said body and rivets extending through said body and through the spaced portion of said legs for holding the legs in frictional contact with said body and for pivoting the same and supporting wheels attached to the ends of said legs.

2. A toy comprising a body portion, members pivoted to said body portion, wheels mounted on said members, means associated with said wheels for causing said members to reciprocate and means for holding said members adjustably positioned on said body portion throughout the movement of said wheels whereby the body portion can assume various grotesque positions and at the same time be reciprocated up and down.

3. A toy comprising a body portion, members pivoted to said body portion, wheels mounted on said members, means associated with said wheels for causing said members to reciprocate and friction held means for holding said members in adjustable position on said body portion whereby the body portion can assume various grotesque positions and at the same time be reciprocated up and down.

4. A toy comprising a body portion, a plurality of members pivoted to said body portion, axles pivoted to said members, wheels eccentrically mounted on said axles, members fixed on said axles, a plurality of notches formed in said members, means slidably positioned on said wheels adapted to engage said notches for holding the wheels in adjustable position on said axles and means for holding the members pivoted to said body portion adjustably.

In testimony whereof I affix my signature.

GEORGE W. FERGUSON.