Oct. 17, 1939. H. D. ALLEN 2,176,832

TOY

Filed March 31, 1936

Fig. 1.

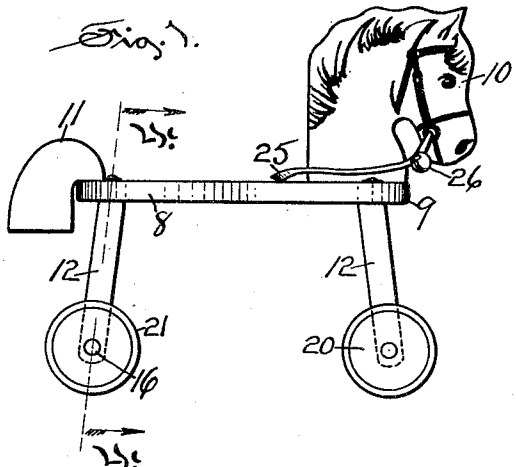


Fig. 2.

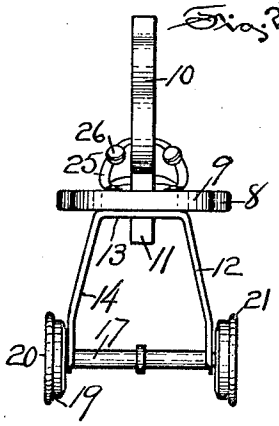


Fig. 3.

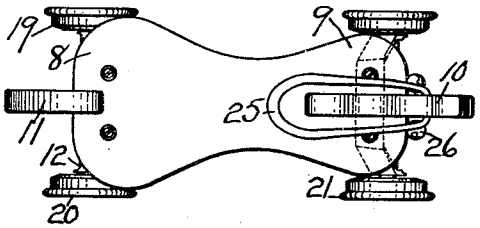


Fig. 4.

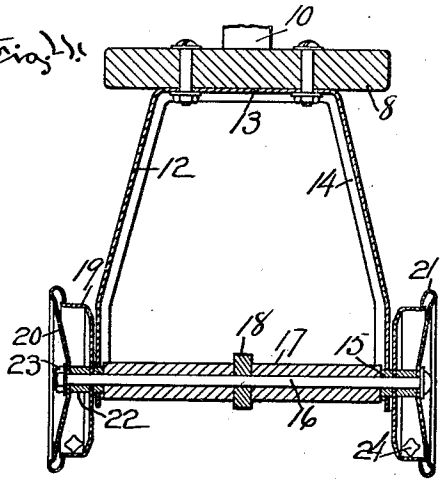


Fig. 5.

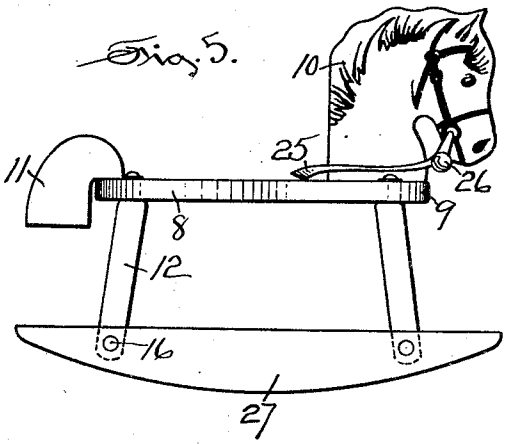
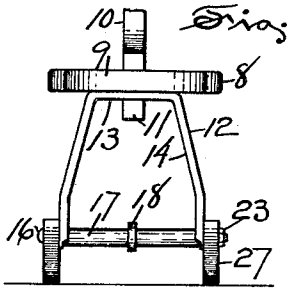


Fig. 6.



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UNITED STATES PATENT OFFICE

2,176,832

TOY

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

Application March 31, 1936, Serial No. 71,923

8 Claims. (Cl. 155—22)

My invention relates to the class of toys designed for riding purposes, and an object of my invention, among others, is the production of a toy of this type having features readily lending themselves for amusement purposes particularly appealing to a child.

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 an end view of the same.

Figure 3 is a top plan view.

Figure 4 is a view in vertical cross section on an enlarged scale on a plane passing through the rear axle, as denoted by the dotted line in Fig. 1 of the drawing.

Figure 5 is a side view of the toy showing a modification.

Figure 6 is a view in end elevation of this latter form of toy with the top or head broken off.

My improved toy comprises a platform including a seat 8 at its rear end and a head support 9 at its front end. This is preferably composed of wood or similar light material and a figure 10 resembling a horse's head is secured to the support 9 and a conventional representation of a tail 11 is secured to the rear end back of the seat 8.

Supporting frames are secured to the platform near the front and back ends thereof. These supports are preferably composed of thin sheet metal bent to shape and of inverted U-form to conventionally represent the legs 12 of an animal, as a horse. The crowns 13 at the top of the frame are straight to receive the seat 8 and head support 9 which are rigidly secured to the frame as by means of bolts or screws or other similar fastenings.

Each of these frames is formed of a single piece of material bent from a strip of channel or trough shape and comprising sides 14. These legs preferably diverge from the platform downwardly and at their lower ends are bent into parallel relation as shown in Figs. 2 and 4 of the drawing. Holes are formed through the lower ends of said legs to receive hubs 15 which are rotatably mounted in said holes. These hubs receive an axle 16 which extends through both legs of each frame. Spacing sleeves 17 are located on the axle between each pair of legs 14 to properly space the legs, and a separator 18 may be placed on the axles between the adjacent ends of the sleeves 17.

Wheels are located on the projecting ends of the axles these wheels each comprising a cup 19 and a cap 20, the cap being curled at its outer edge to form a rim 21 which is secured to the edges of the cup in any suitable manner. Strut sleeves 22 are located within each wheel to properly space the bottom of the cup and the cap from each other and provide a rigid structure.

A nut 23 screwed on to the end of the axle 16 opposite its headed end firmly secures the wheels, axle, and spacers together so that they rotate as a unit in the lower ends of the legs 14. The wheels are made of thin sheet metal stamped to shape, the cup 19 at least having some resonant characteristics so that sounders 24 preferably of angular shape will produce a ringing sound as the wheels are rotated.

The head may be painted to represent a mane, eyes and nostrils, as of a horse and also to represent a bridle, a rein 25 being extended through a hole in the head and bells 26 are secured to the rein.

That form of the toy shown in Figs. 5 and 6 is substantially the same as that hereinabove described with the exception that in the place of the wheels rockers 27 are employed. Otherwise the two forms of the toy are the same.

I claim:

1. A riding toy comprising a platform, an inverted U-shaped frame, formed separately from and extending across said platform at each end thereof, said frames being separately formed each from the other and said frames comprising crowns spaced apart and secured to the platform at opposite ends thereof, said crowns being extended and bent at opposite ends to form legs, said frames each being formed from channel strips with the channel facing inwardly, bolts projecting through said platform and crowns and having heads to receive a tool for turning the bolts and with nuts housed within and fitting the channels in said strips to prevent turning of the nuts when the bolts are screwed in, and means for movably supporting said toy.

2. A riding toy comprising a platform, an inverted U-shaped frame at each end of said platform, axles supported in the lower ends of the branches of each of said frames and projecting beyond the outer sides thereof, and wheels secured to the projecting ends of said axles, each wheel comprising a cup and a cap, said cap having its rim overturned and inwardly extended to form a rim having an annular groove.

3. A riding toy comprising a platform, an inverted U-shaped frame at each end of said plat-

form, said frames being each composed of channel strips with the channels facing inwardly, spacing sleeves located between the branches of each frame with the ends of the sleeves projecting into said channels, hubs abutting the ends of said sleeves and rotatably mounted in the lower ends of said branches, wheels abutting said hubs, said hubs projecting beyond opposite sides of said branches to space the branches and wheels apart axles projecting through said sleeves, hubs and wheels, and means for drawing said parts together.

4. A riding toy comprising a platform, an inverted U-shaped frame at each end of said platform, each of said frames being composed of channel strips, spacing sleeves located between said strips, hubs abutting said sleeves, wheels abutting said hubs, said hubs projecting beyond opposite sides of said branches to space the branches and wheels apart strut sleeves within said wheels and abutting opposiite walls thereof, and means for drawng said spacing sleeves, hubs, wheels and strut sleeves together.

5. A wheel and axle structure for a toy, said structure comprising a supporting frame having branches, an axle supported in the lower ends of said branches of each of said frames and projecting beyond the outer sides thereof, and wheels secured to the projecting ends of said axle each wheel comprising a cup and a cap, said cap having its rim overturned and inwardly extended to form a ring having an annular groove.

6. A wheel and axle structure for a toy, said structure comprising supporting frames having branches of channel shape in cross section with the channels facing inwardly, spacing sleeves located between the branches of each frame with the ends of the sleeves projecting into said channels and housed therein, hubs abutting the ends of said sleeves and rotatably mounted in the lower ends of said branches, wheels abutting said hubs, said hubs being of a length greater than the thickness of said branches to space the branches and wheels apart axles projecting through said sleeves, hubs and wheels, and means for drawing said parts together.

7. A wheel and axle structure for a toy, said structure comprising supporting frames having branches, spacing sleeves located between said branches, hubs abutting said sleeves within said sleeves and of a length greater than the thickness of the branches to space the sleeve and wheels apart to prevent binding of the wheels against the branches, wheels abutting said hubs, strut sleeves within said wheels and abutting the opposite walls thereof, and means for drawing said spacing sleeves, hubs, wheels and strut sleeves together.

8. A wheel and axle structure for a toy, said structure comprising a supporting frame, an axle supported by said frame, and a wheel secured to said axle and comprising a cup and a cap, said cap having a backturned part creating a rim comprising a tread projecting radially from said cup and spacing the latter from a surface over which the wheel travels, a strut sleeve located between the cup and the cap upon said axle, and means for forcing the cup and cap toward each other to secured them together.

HAROLD D. ALLEN.