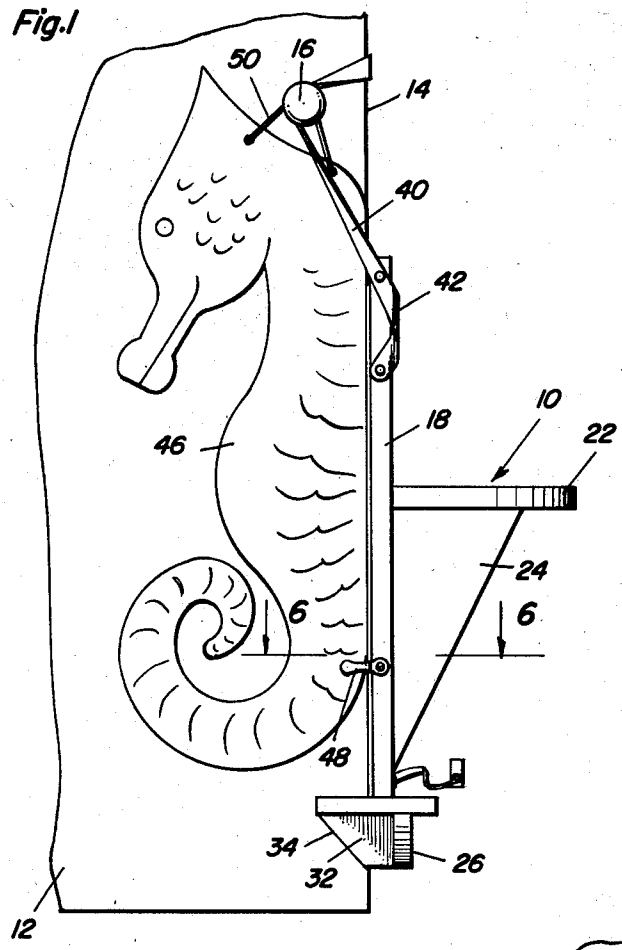
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DOOR ATTACHED RIDING TOY

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Fig.1



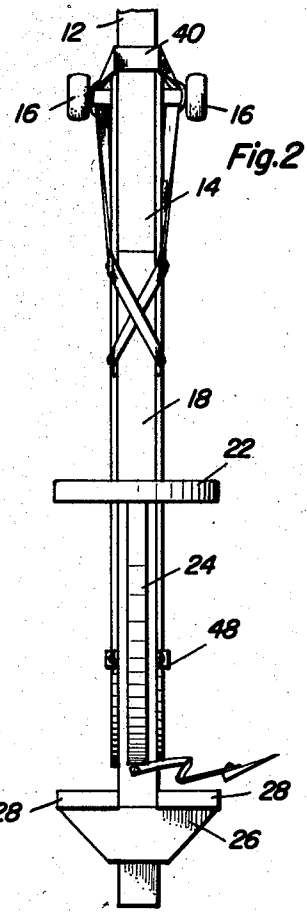


Fig.2

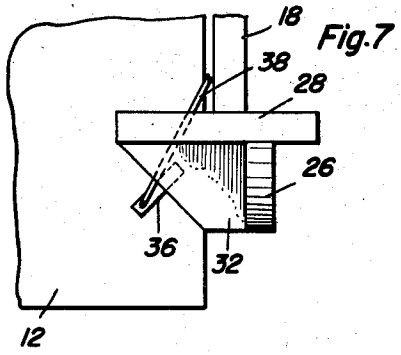


Fig.7

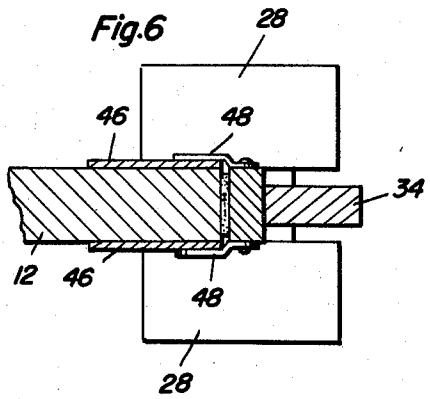


Fig.6

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Fig.3

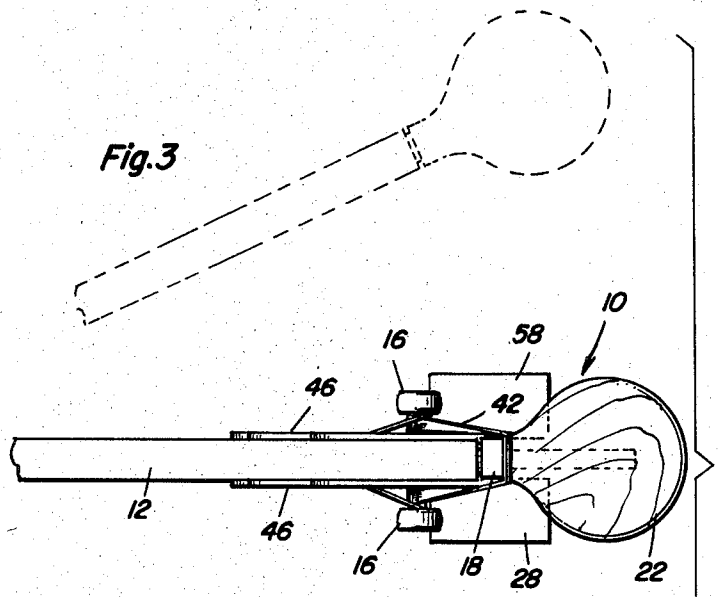


Fig.4

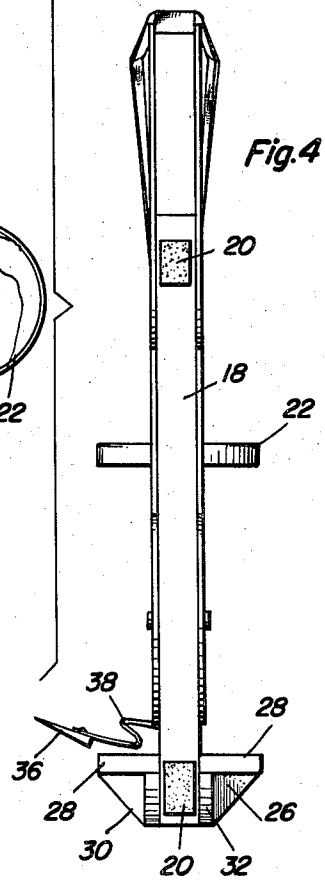
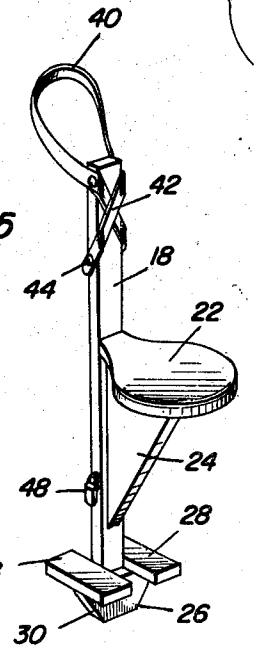


Fig.5



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DOOR ATTACHED RIDING TOY

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7 Claims. (Cl. 155—2)

The present invention generally relates to a toy device and more particularly to a riding toy which is adapted to be attached to the free vertical edge of a door whereby a child may ride the toy back and forth with the door as the door is swung about its usual vertical axis.

The primary object of the present invention is to provide a toy consisting essentially of a seat and foot rests which are attached to the front edge or free edge of any conventional hinged door normally found in households whereby a child riding the toy will have a sense of motion as the child swings back and forth on the door.

A further object of the present invention is to provide a toy in accordance with the preceding object together with a novel strap arrangement for attaching the toy to the door knobs normally found on the door.

Another object of the present invention is to provide a door attached riding toy in which the weight of the occupant locks the toy on the door, there also being provided wedge means for rigidly securing the bottom of the toy to the door to prevent relative movement therebetween.

Still another object of the present invention is to provide a riding toy in accordance with the preceding objects in which there are provided cut-outs simulating an animal whereby the child may more readily imagine that he is riding on such an animal.

Other objects of the present invention will reside in its extreme simplicity of construction, ease of attachment and detachment, entertaining qualities and relatively inexpensive manufacturing cost.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a side elevational view of the toy of the present invention attached to the free edge of a hinged door;

Figure 2 is an end elevation of the construction of Figure 1;

Figure 3 is a plan view of the construction of Figure 1;

Figure 4 is an elevational view of the inner edge of the toy when it is removed from the door;

Figure 5 is a perspective view of the riding toy;

Figure 6 is a detailed sectional view taken substantially upon a plane passing along section line 6—6 of Figure 1 illustrating the details of construction of the clip members for holding the animal simulating panels to the surface of the door; and

Figure 7 is an enlarged side elevational view of the lower part of the toy illustrating the wedge member in use.

Referring now specifically to the drawings, the numeral 10 generally designates the riding toy of the present invention which is adapted to be attached to a conventional hinged door 12 having the usual vertical free edge 14.

The door 12 is of any conventional construction normally found in homes and is supported by a plurality of hinges (not shown) for swinging movement about a generally vertical axis. The door 12 is also provided with the usual door knobs 16 which project from both sides of the door 12 and are generally located adjacent the center of the vertical height or at the usual convenient height and adjacent the free edge thereof for operating the usual latch mechanism in the door, the latch mechanism being omitted since it forms no part of the present invention.

The toy 10 includes an elongated vertically disposed member 18 which lies against the free edge 14 of the door 12 and extends from a point adjacent the bottom of the door 12 to a point spaced below the door knobs 16. The inner surface of the vertical member 18 is provided with a pair of pads 20 of cushioning material for engagement with the edge 14 of the door 12.

Mounted on the outer surface of the member 18 adjacent the center thereof is an outwardly extending horizontal seat 22 shaped to receive an occupant such as a small child. The seat 22 is supported by a vertically disposed triangular shaped support bracket 24 which extends under the seat 22 and also extends along the outer surface of the vertical member 18 as shown in Figures 1 and 5 thereby providing a seat for an occupant. The offset of the door knobs 16 on one side of the free edge 14 and the offset on the other side of the weight of the occupant causes a locking force to be exerted horizontally against the free edge of the door.

At the lower end of the upstanding or vertical member 18 is a transverse plate 26 disposed in a vertical plane against the outer surface of the upstanding member 18 and secured thereto by any suitable means. The plate 26 extends beyond the vertical member 18 and supports two horizontally disposed rectangular members 28 in the form of combination foot rests and positioning braces whereby an occupant of the seat 22 may place his feet on the foot rests 28. The end edges of the vertical plates 26 converge as indicated by the numeral 30 and a pair of forwardly extending support plates 32 engage the side edges of the upstanding member 18, and also the inner surface of the vertical plate 26 and of course, the undersurface of the foot rests 28 thereby providing rigid support for the foot rests 28 which primarily act as the forked brace which holds the lower part of the device securely in place. The inner edges of the foot rests 28 may also be padded. As shown in Figure 4, the plates 32 closely embrace the vertical member 18 and the door 12 and, as shown in Figure 1, the inner edge of each of the plates 32 is inclined downwardly and outwardly as indicated by the numeral 34.

As clearly shown in the drawings, the foot rests 28 bridge the door 12 and receive the edge 14 therebetween. Inasmuch as the doors 12 vary somewhat in thickness, there is provided a wedge 36 supported from and attached to the vertical member 18 by a resilient strap 38 whereby the wedge 36 may be inserted between one of the plates 32 and the door 12 as clearly illustrated in Figure 7 for assuring rigid engagement between the lower end of the vertical member 18 and the door 12.

For supporting the upper end of the vertical member 18, there is provided an elongated flexible strap 40 having the ends thereof crossed as indicated by the numeral 42 on the outer face of the vertical member 18 and having each free end portion thereof secured to the side edges of the vertical member 18 at spaced points with fastening members designated by the numeral 44 thereby providing a flexible loop extending above the upper end of the member 18. Thus, the center of the flexible strap 40 may be engaged with the edge 14 of the door 12 and the adjacent portions of the strap 40 hooked over the

door knobs **16** thus supporting the vertical member **18** against the outer or free edge of the door **12**.

For more closely simulating the riding action and making the toy more amusing to a child, there is provided a pair of cut-outs **46** constructed from cardboard or any similar material which are painted to represent the coloring of particular animal, the panels or sheets of material **46** being of a planar nature and disposed against both surfaces of the door **12**. The vertical member **18** is provided with a pair of pivotal off-set clips **48** mounted thereon which will pivot to a position perpendicular to the vertical member **18** and in spaced parallel relation to the surfaces of the door **12** thereby holding the members **46** against the surfaces of the door **12**. The upper end of the simulated animal **46** is supported from the door knobs **16** by a flexible string **50** as illustrated in Figure 1 whereby the clips and door knobs serve the general purpose of holding the simulated animal **46** and supporting the seat **22** in position on the door whereby a child resting on the seat **22** may swing the door back and forth and imagine that he is riding the animal simulated by the panels **46**. Of course, the device may be used without the panels **46** but the simulated animals make the device more entertaining and attractive to children. While the simulated animal **46** has been illustrated in the form of a seahorse, it is pointed out that the same device could be made in the form of a pig whereby the children could imagine that they were riding piggy back and the devices may alter in coloring, size, shape and material and the clips may be either metal or plastic and the straps and flexible strings may be of any conventional structure. The crossed relation of the strap **40** provides an equal stress throughout the strap and provides for a neat appearance and the strap **40** may be of canvas, leather or the like.

The foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly, all suitable modifications and equivalents may be resorted to, falling within the scope of the invention as claimed.

What is claimed as new is as follows:

1. The combination of a horizontally swinging door having a free outer vertical edge and a pair of door knobs at opposite sides of the door adjacent said outer edge, and a riding toy comprising a vertically elongated member disposed in abutment with said outer edge of said door, a horizontal seat and a pair of foot rests secured to said member, and means provided on said member and removably engaging said door knobs whereby to detachably retain the riding toy on said door for swinging movement therewith.

2. The combination as defined in claim 1 wherein said foot rests are transversely spaced and engage the opposite side surfaces of said door whereby to assist in retaining the riding toy in position.

3. The combination as defined in claim 2 together with a wedge interposed between said door and one of said foot rests.

4. The combination of a horizontally swinging door having a free outer vertical edge and a pair of door knobs at opposite sides of the door adjacent said outer edge, and a riding toy comprising a vertically elongated member disposed in abutment with said outer edge of said door and having its upper end spaced downwardly from said door knobs, a flexible strap secured to the upper end portion of said member and including loop means removably engaging said door knobs whereby to detachably retain the riding toy on said door for swinging movement therewith, a horizontal seat provided intermediate the ends of said elongated member, and a pair of transversely spaced foot rests provided at the lower end of said member, said foot rests straddling the lower portion of said door whereby to assist in retaining the riding toy in position thereon.

5. The combination as defined in claim 4 together with a pair of flat panels provided at opposite side surfaces of said door adjacent said free edge thereof, and clamp means provided on said elongated member and engaging said panels.

6. A riding top adapted to be attached to the free vertical outer edge of a horizontally swinging door having a pair of door knobs, said riding toy comprising a vertically elongated member adapted to abut the free outer edge of a door, a horizontal seat and a pair of foot rests secured to said member, and door knob engaging means provided on said member for removably retaining said toy in position on a door.

7. The device as defined in claim 6 wherein said foot rests are transversely spaced to provide therebetween keeper means for the free outer edge portion of a door.

References Cited in the file of this patent

UNITED STATES PATENTS

1,307,468	Wells	June 24, 1919
1,993,320	Dozier	Mar. 5, 1935

FOREIGN PATENTS

808,242	Germany	July 12, 1951