

Oct. 16, 1923.

1,470,911

F. V. BURROW

## MERRY-GO-ROUND STEEPELCHASE

Filed March 27, 1922

2 Sheets-Sheet 1

Fig. 1.

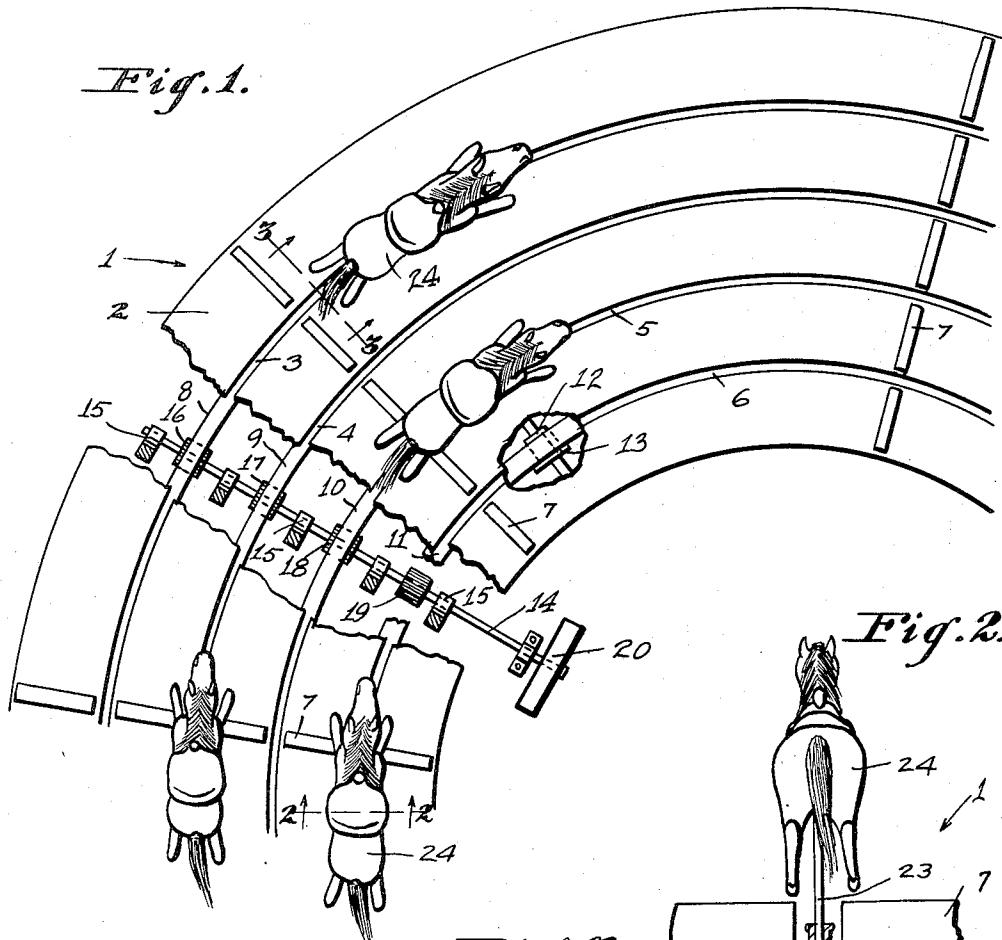
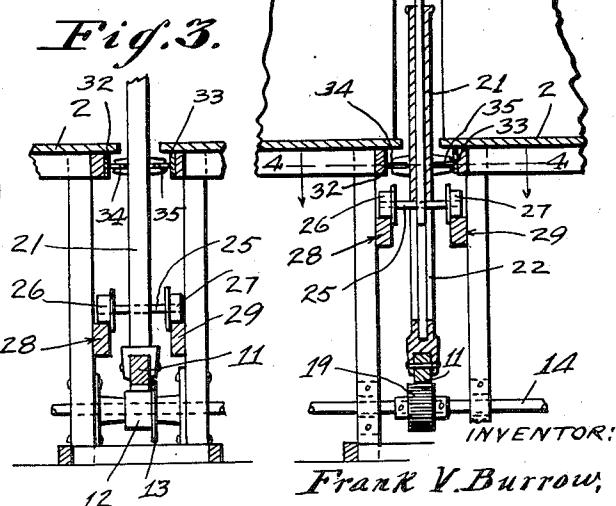
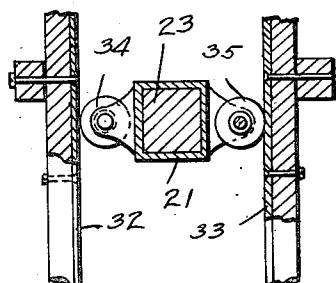


Fig. 4.



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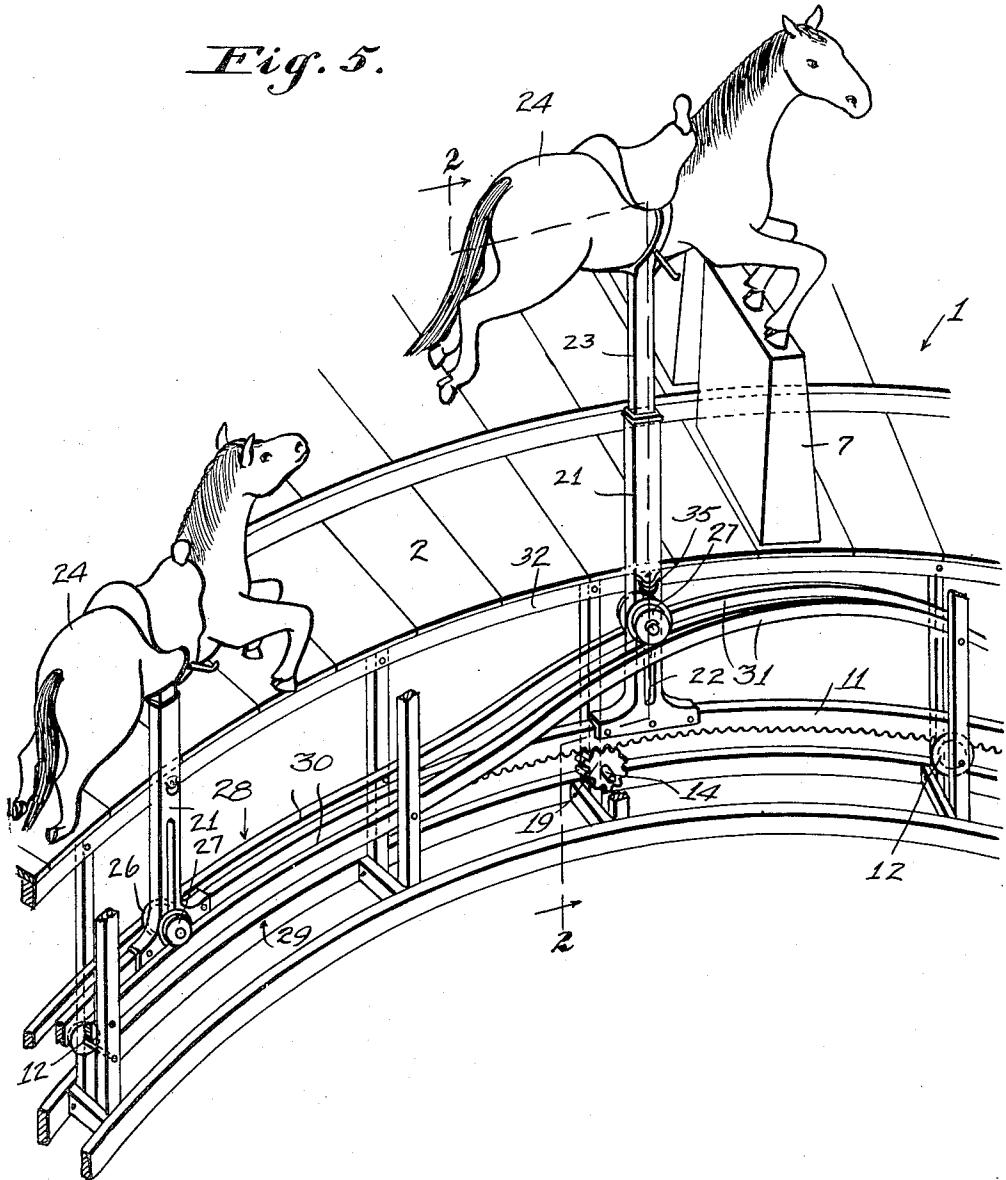
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2 Sheets-Sheet 2

*Fig. 5.*



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# UNITED STATES PATENT OFFICE.

FRANK V. BURROW, OF LOS ANGELES, CALIFORNIA.

## MERRY-GO-ROUND STEEPECHASE.

Application filed March 27, 1922. Serial No. 547,139.

To all whom it may concern:

Be it known that I, FRANK V. BURROW, a subject of Great Britain, residing at Los Angeles, county of Los Angeles, and State 5 of California, have invented new and useful Improvements in Merry-Go-Round Steeplechases, of which the following is a specification.

My object is to make a merry-go-round 10 steeple chase and my invention consists of the novel features herein shown, described and claimed.

The leading feature of my invention is the provision of carriers in simulation of 15 horses running upon a circular stationary track, stationary hurdles upon the track, and means whereby the horses jump the hurdles.

In the drawings:

20 Fig. 1 is a fragmentary top plan view of a merry-go-round steeple chase embodying the principles of my invention.

Fig. 2 is a fragmentary vertical cross-section on the line 2—2 of Figs. 1 and 5, 25 and looking in the direction indicated by the arrows and showing a horse passing over a hurdle.

Fig. 3 is a fragmentary vertical cross-section on the line 3—3 of Fig. 1 and showing the parts in the positions they occupy 30 before or after passing a hurdle.

Fig. 4 is a fragmentary horizontal section upon the line 4—4 of Fig. 2.

Fig. 5 is a fragmentary perspective, showing 35 one horse upon the track level and another horse jumping a hurdle and showing the means for accomplishing this.

Referring to the drawing in detail:

The circular stationary track 1 comprises 40 a flat, level platform 2 having vertical annular concentric slots 3, 4, 5 and 6. The hurdles 7 extend upwardly from the track and cross the track in radial lines, with the slots passing through the hurdles. The 45 gear racks 8, 9, 10 and 11 are mounted below the slots 3, 4, 5 and 6 and run upon rollers 12 having retaining flanges 13. The driving shaft 14 is mounted in bearings 15 below and radial to the racks, and pinions 16, 17, 18 and 19 are fixed upon the shaft 14 and mesh with the racks 8, 9, 10 and 11. A pulley 20 is mounted upon the inner end of the shaft 14 to be connected to any suitable power for driving the shaft.

50 Hollow posts 21 are fixed to the racks 8, 9, 10 and 11 and extend upwardly

through the slots 3, 4, 5 and 6, there being transverse slots 22 through the lower ends of the posts. Extension posts 23 are slid- 60 ily mounted in the posts 21 and the horses 24 are fixed upon the upper ends of the extension posts 23 above the upper ends of the posts 21. Shafts 25 are fixed through the lower ends of the extension posts 23 in the slots 22 and flanged wheels 26 and 27 are mounted upon the ends of the shafts 25 outside of the posts 21. Track rails 28 and 29 are mounted below the platform 2 so that the posts 21 pass between the rails 28 and 29, there being a pair of rails 28 and 29 for each slot 3, 4, 5 and 6, and the wheels 26 and 27 running upon the rails. The track rails 28 and 29 have flat 65 level portions 30 in the planes between the hurdles 7 and have upwardly curved por- 70 tions 31 in the planes of the hurdles, so that when the wheels 26 and 27 run over the portions 31, the horses 24 will jump the hurdles 7. When the wheels 26 and 27 are down upon the level portions 30, the bellies of the horses 24 are upon the upper ends of the posts 21 and the feet of the horses are just above the platform 2 and when the wheels 26 and 27 are upon the raised portions 31, the extension posts 23 move upwardly and raise the horses over 75 the hurdles.

Guide tracks 32 and 33 are mounted just 80 below the platform 2 on each side of each slot 3, 4, 5 and 6, and guide rollers 34 and 35 are mounted upon the sides of the posts 21 to run upon the guide tracks 32 and 33.

The pinions 16, 17, 18 and 19 may be 85 proportioned to drive the racks 8, 9, 10 and 11 at equal speeds or at different speeds. If the gears are equal an inside horse will make a circuit quicker than an outside horse.

Various changes may be made without 90 departing from the spirit of my invention 100 as claimed.

I claim:

1. A merry-go-round steeple chase comprising a platform forming a circular stationary track, hurdles extending upwardly 105 from the track, there being vertical concentric slots through the track and hurdles, gear racks rotatably supported below the slots, posts extending upwardly from the racks through the slots, extension posts slidably mounted in the first posts, horses mounted upon the extension posts above 110

the track means for rotating said tracks and posts and means for reciprocating said extension posts whereby the horses are caused to jump the hurdles.

5. 2. A merry-go-round steeple chase comprising a circular stationary track, having vertical concentric slots, posts mounted to run in the slots, extension posts slidably mounted in the first posts, horses upon the extension posts, slotted hurdles upon the track, means for causing said posts to run in said slots and means for reciprocating said extension posts whereby the horses are caused to jump the hurdles.

10. 3. A merry-go-round steeple chase comprising a flat, circular stationary track, hurdles upon the track, there being con-

centric vertical slots through the track and hurdles, gear racks below the slots, a driving shaft, gears connecting the driving 20 shaft to the gear racks, hollow posts extending upwardly from the gear racks through the slots, extension posts slidably mounted in the hollow posts, track rails upon each side of the extension posts, wheels 25 upon the track rails and connected to the extension posts and horses upon the extension posts above the track; there being raised portions in the track rails engaged by said wheels to reciprocate said extension posts so that the horses will jump the hurdles as the horses go around the track. 30

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