

C. A. ROMAN.
AMUSEMENT DEVICE.
APPLICATION FILED JAN. 30, 1918.

1,329,856.

Patented Feb. 3, 1920.

2 SHEETS—SHEET 1.

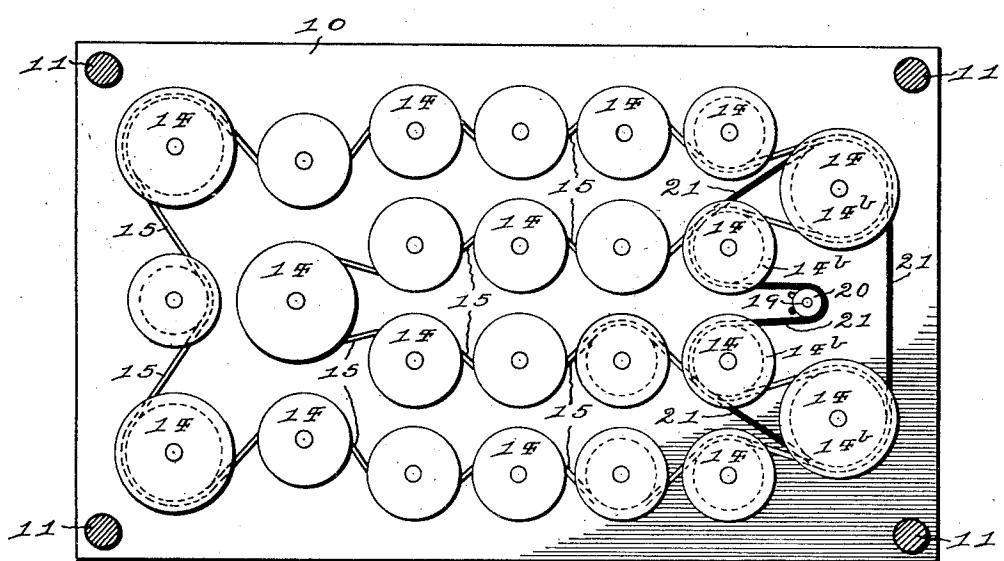
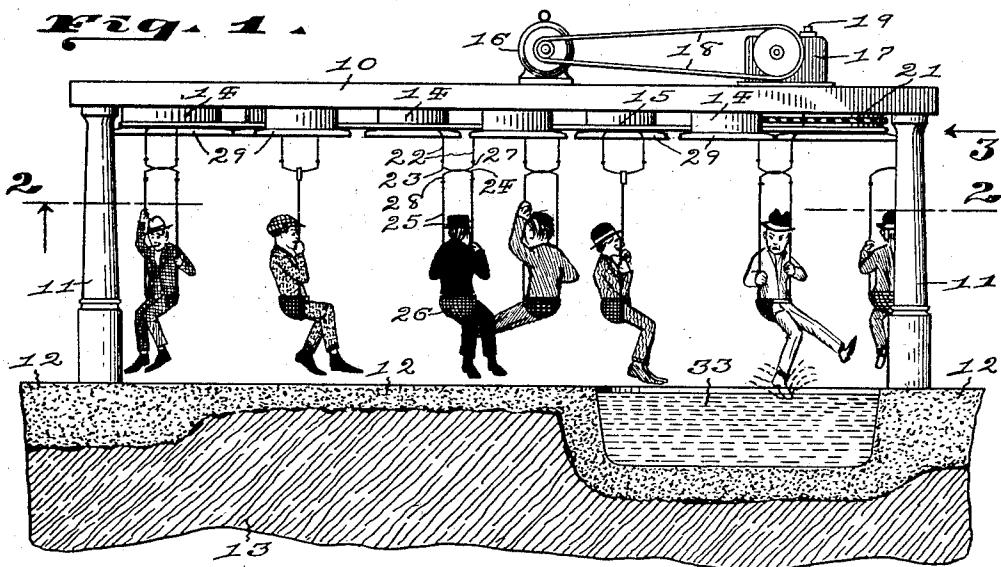


Fig. 2.

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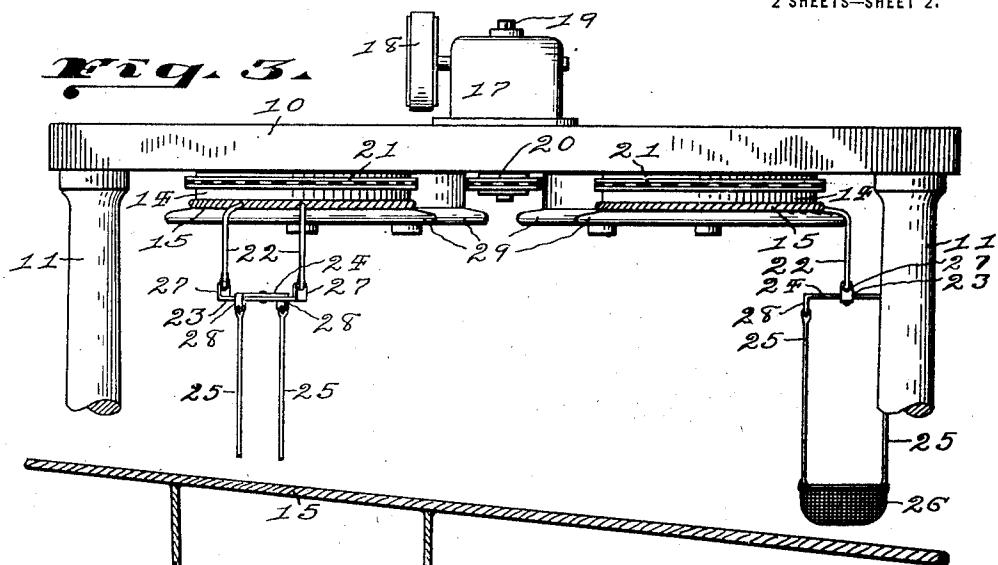


Fig. 4.

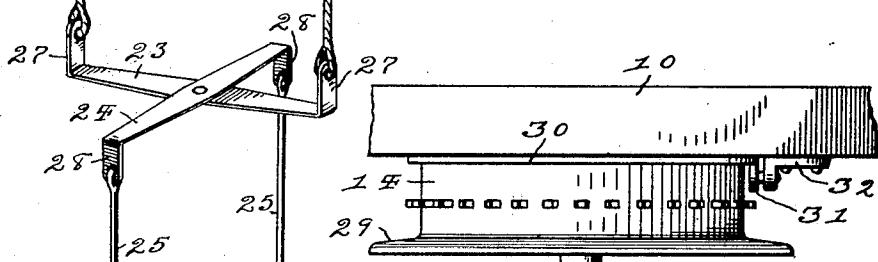
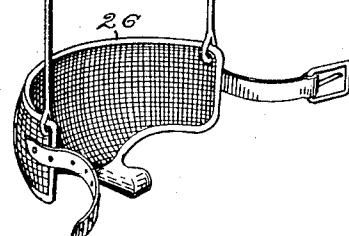


Fig. 5.



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AMUSEMENT DEVICE.

1,329,856.

Specification of Letters Patent.

Patented Feb. 3, 1920.

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To all whom it may concern:

Be it known that I, CHARLES A. ROMAN, a citizen of the United States, residing at Oklahoma, in the county of Oklahoma and 5 State of Oklahoma, have invented certain new and useful Improvements in Amusement Devices, of which the following is a specification, reference being had to the accompanying drawings.

10 The object of the invention is to furnish amusement and exercise.

The drawings show one of the practical forms in which the invention may be embodied and the form in which it has been 15 built and operated.

Figure 1 is a side elevation of the device, with the earth and a concrete footing in section.

Fig. 2 is a view looking directly upward 20 from the line 2—2 of Fig. 1.

Fig. 3 is a fragmental elevation view of parts on a larger scale, taken in the direction of the arrow 3 of Fig. 1.

Fig. 4 is a perspective view at close range, 25 showing a traveling cable and a hanger.

Fig. 5 is a fragmental elevation view on still larger scale than Fig. 3, showing an optional construction.

Like characters of reference designate like 30 parts in all the figures.

In the present embodiment of the invention, a suitable horizontal overhead support 10 is provided and supported by columns 11, and these columns may rest on a concrete 35 footing 12 in the ground 13.

On the lower surface of this support 10, a series of supporting pulleys 14 are pivoted on vertical axis-lines and adapted to carry an endless traveling cable 15.

40 In order to drive the cable 15, a suitable number of the pulleys are positively driven by a suitable motor, such, for example, as the electric motor 16 which may be mounted on the support 10.

45 In establishing driving connections between the motor 16 and the pulleys 14, a speed-reducing jack 17 may be set on top of the support 10 and driven from the motor 16 by a belt 18.

50 The shaft 19 of this jack 17 may extend down through the support 10, and a sprocket wheel 20 on said shaft may be operatively connected with sprocketed portions of one or more of the pulleys 14 by a link belt 21.

In Fig. 2 this link belt 21 is represented 55 by a heavy black line, and it drives the four pulleys 14.

The parts thus described are not claimed as new.

In carrying out the object stated, a number 60 of hangers are attached to the traveling cable 15 and adapted to partly or wholly support the weight of persons suspended by them; and in order that the persons suspended may be swung from side to side 65 while being carried by and dangling from the cable the supporting pulleys 14 are so positioned that the cable travels in a serpentine path.

The hangers may be close enough together 70 on the cable 15 to occasionally swing the dangling persons into contact, and just long enough to allow the persons to control themselves by touching their feet to the floor 12; and while there will be no chance to dangerously drag a person or throw a number 75 of persons into dangerous disorder, good exercise will be furnished and great skill developed by the persons in their attempts to maintain their bearings and avoid awkward movements and positions.

Within the meaning and intent of the invention, the hangers may comprise any suitable suspending connection.

In order, however, to prevent undue 85 twisting of the hangers and whirling of the persons suspended by them, an improved hanger is provided and best shown in Fig. 4.

In arranging this improved hanger, two flexible connections 22 depend from the cable 90 15, one of the connections being attached to the cable some distance ahead of the other.

The lower ends of these connections 22 are attached to and support the opposite ends of a bar 23, which normally parallels the 95 cable 15.

A second bar 24 has its center secured rigidly to the center of the bar 23, and stands at right angles to said bar 23 and the cable 15.

100 Suspending connections 25 depend from the ends of the bar 24 and support a suitable seat 26, the seat being arranged to support a person in either a standing or sitting position.

105 Each hanger is made elastic in the direction of its length, so that the persons suspended may, by touching their feet to the

floor 12 or other support, impart to them-selves a vertical springing movement while the cable 15 carries them forward.

A practical way to provide elasticity in the hangers is to make the bars 23 and 24 of leaf-spring material, which has been done.

In order to have the seat 26 hang more nearly in stable equilibrium and not too easily drop down at either side, the ends of 10 the first-named bar 23 are turned upward as at 27, and the ends of the other bar 24 downward as at 28.

In providing further means for imparting to the suspended persons a vertical springing movement, each of the supporting pulleys 14 is provided with an extra wide supporting flange 29 for the cable 15. It will thus be seen that in the traveling of the suspending connections 22 of the hangers 20 around the pulleys, portions of said connections will be swung into substantially horizontal position, as best shown in Fig. 3, thereby taking up a part of the length of said connections and imparting to the suspended persons the springing movement described.

To avoid undue strain on the pivots of the pulleys 14 under load, said pulleys may be provided with a radial flange 30, and said flange may be supported by a small roller 30 31 on a bracket 32 bolted to the support 10.

Additional amusement may be provided by limiting the extent of the floor 12, and water 33 may be provided in place of the floor omitted. It will then be necessary for 35 the persons to note their approach to the water and hold their feet up or submit to a foot bath.

Having thus described the invention, I claim:

40 1. In a device of the class described, a

support, flexible depending means, suspended resilient carriers, and a traveling conveyer for said carriers.

2. In a device of the class described, a support, suspended resilient carriers, flexible depending means supporting said carriers, a traveling conveyer for said means, and means whereby the carriers are free for oscillation.

3. In a device of the class described, a traveling supporting cable movable in a serpentine path, hangers flexibly suspended from said cable, and seat-supporting means suspended from said hangers and vertically resilient.

4. In a device of the class described, a traveling supporting cable movable in a serpentine path, flexible suspended means carried by said cable, resilient means supported from said flexible means, and seat-carrying means supported from said resilient means.

5. In a device of the class described, a hanger embodying suspending means, members of resilient material disposed at angles to each other and suspended from said means, and suspending connections depending from one of said members.

6. In a device of the class described, a hanger including two suspending connections, a bar supported at its ends by said connections, a second bar secured centrally to the first-named bar and disposed at right angles to said first-named bar, suspending connections depending from the ends of the second-named bar, and seating means at the lower ends of said second connections.

Witness my hand this 26 day of January, 1918.

CHARLES A. ROMAN.