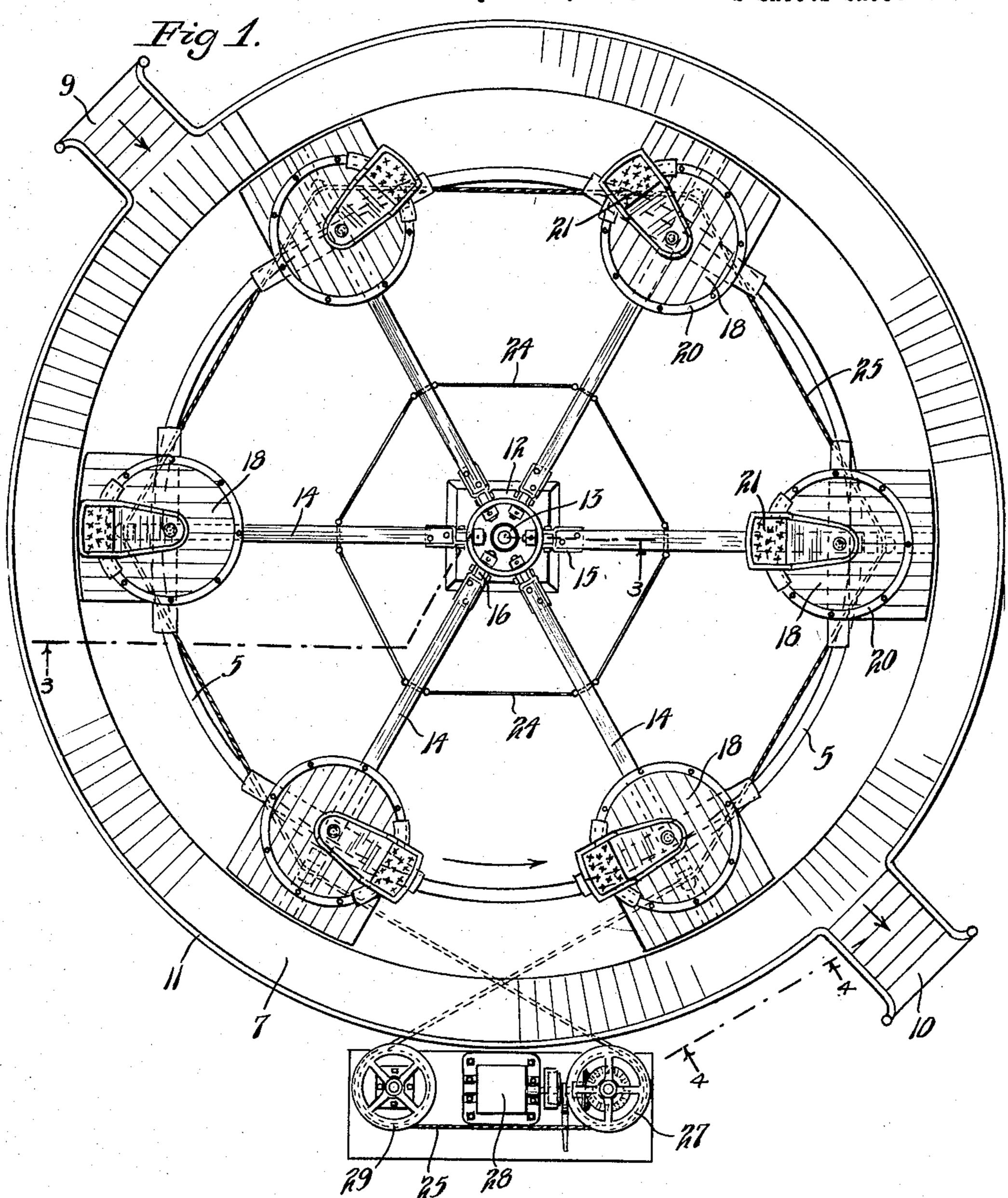
AMUSEMENT DEVICE

Filed April 24, 1926

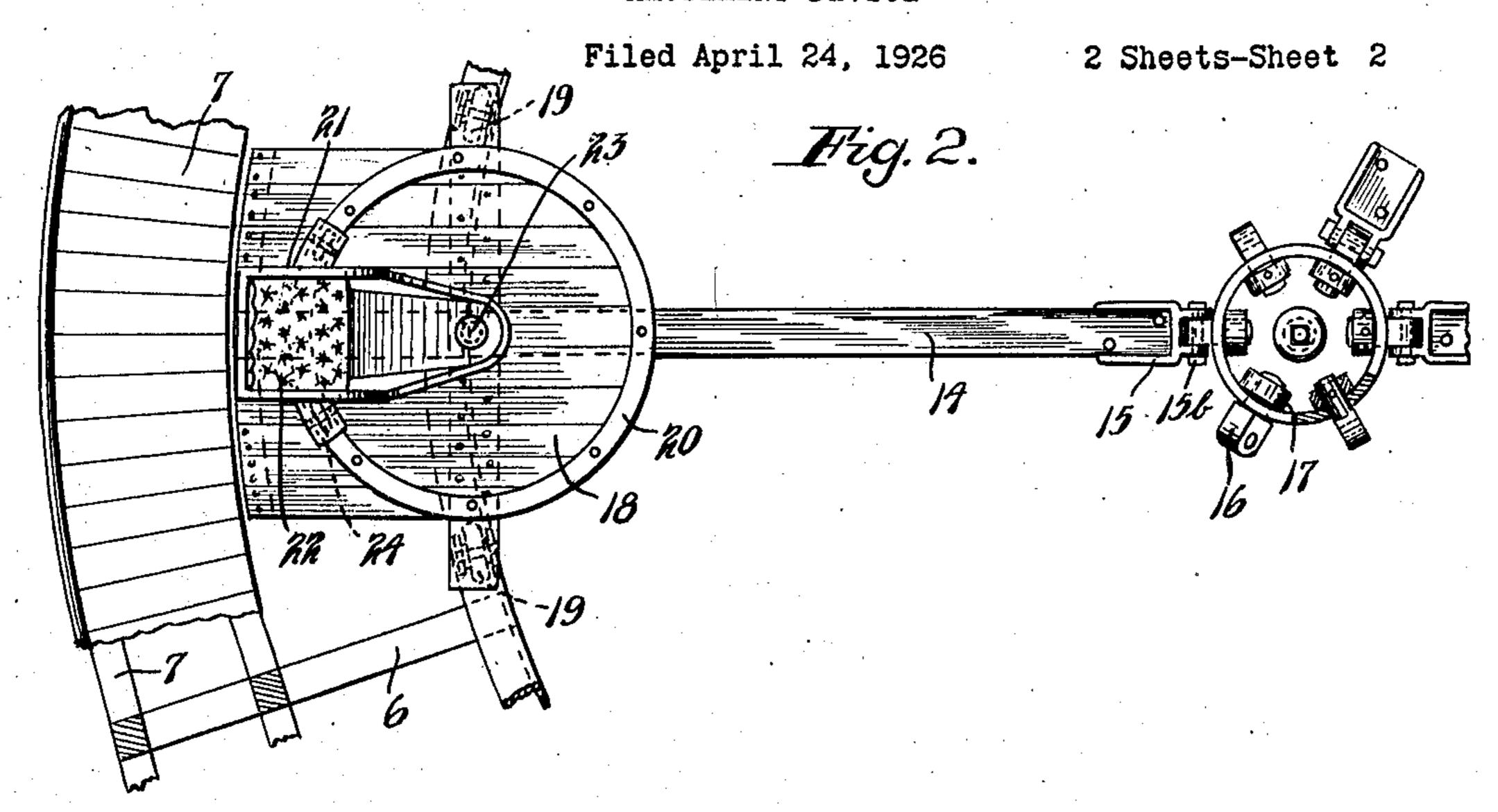
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Inventor HERBERTW. SELLNER By his Attorneys

Williamson Reifellilliamson

AMUSEMENT DEVICE



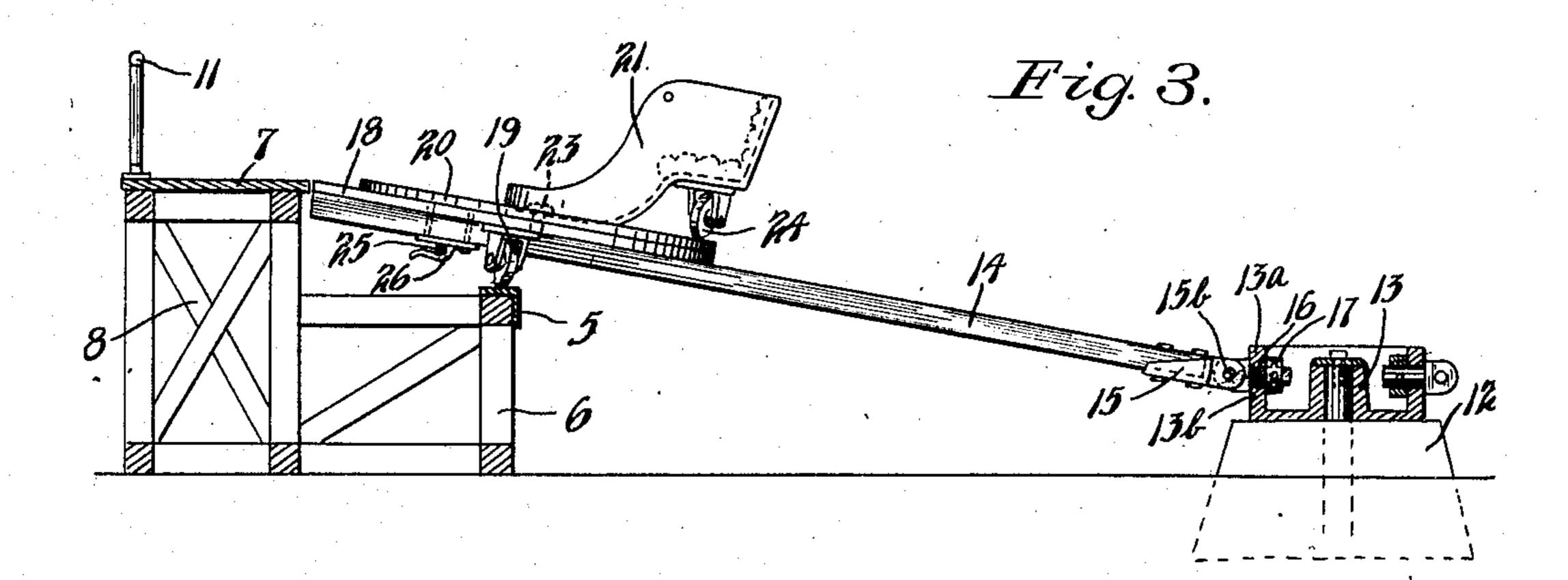
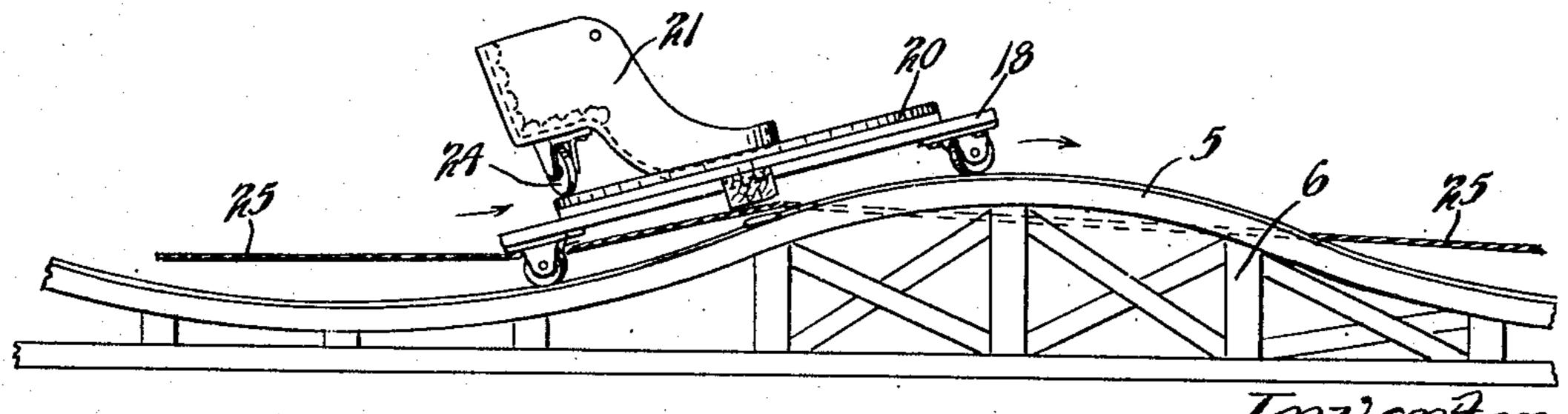


Fig. 4.



Inventor HERBERTW. SELLNER By his Attorneys

Williamson Reifellilleamson

UNITED STATES PATENT OFFICE

HERBERT W. SELLNER, OF FARIBAULT, MINNESOTA

AMUSEMENT DEVICE

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This invention relates to amusement appa- 7 is disposed about the outer side of track 5 pleasure seekers.

provide a new and improved amusement ap- the walk. paratus which will furnish pleasurable and In the center of track 5 I provide a heavy 10 nomically and will have a high degree of hub 13 is revolubly mounted. Hub 13 has 60 safety.

15 pectedly swing, snap from side to side or ro- or knuckle joints to the hub 13. The con- 65 car.

20 such a device, a generally circular track pro- heavy pin 16. Pins 16 are journaled in the 70 25 thereon, the oscillation of the car relative carrier arms 14 having its outer edge extend- 75 tilted position of the platform.

ing drawings, wherein like characters refer radially with respect to hub 13. to similar parts throughout the several views, On each of the platforms 18 an annular and in which

35 bodiment of the invention.

a larger scale.

40 in side elevation, and

Fig. 1.

In the preferred embodiment of my de- It will be seen that the cars 21 are mounted 45 vice illustrated in the drawings, an undu- for oscillation depending upon the pitch of 95

ratus and especially to amusement apparatus 5 undulated symmetrically with said track. designed for parks and resorts where it is Walk 7 is supported on a frame work 8 and desired to accommodate a large number of has the entrance 9 at one side thereof and the exit 10 preferably at the opposite side. 55 It is the main object of my invention to A railing 11 is mounted on the outer side of

unexpected sensations, may be operated eco- standard or foundation 12 on which a heavy an annular vertically extending flange A further object is to provide amusement 13^a provided with a plurality of horizontal apparatus wherein the riders will be moved bearings 13b therein. A plurality of heavy in general through an orbit and will unex- carrier arms 14 are connected by universal tate without in any way being able to figure nections may be made as illustrated by rigwhat movement may next take place in the idly securing to the inner end of each of arms 14 a strap 15 having the spaced ears It is a more specific object to provide in 15b hinged to the outer end of a relatively vided with a plurality of undulations over bearings 13b and are retained on hub 13 by which tiltable platforms are passed, each of means of set screw collars 17 secured to the the platforms carrying a passenger car inner ends thereof. A flat platform 18 is mounted for violent oscillation and rotation rigidly secured to the outer end of each of to the platform being determined by the ing in the arc of a circle with hub 13 as the center.

These and other objects of the invention Each of the platforms 18 is supported on will be apparent from the following descrip- the track 5 preferably by means of a pair 30 tion made in connection with the accompany- of wheels 19. The axes of wheels 19 extend 80

track 20 is mounted having its center extend-Fig. 1 is a plan view of a preferred em- ing approximately over the main track 5. A car 21 is mounted for oscillation on each of 85 Fig. 2 is a plan view of one of the units on the platforms 18 having a passenger seat 22 in the outer portion thereof and pivoted ec-Fig. 3 is a vertical section taken on the centrically by a heavy bolt 23 to platform line 3—3 of Fig. 1 showing one of the units 18 at the center of track 20. The outer end of car 21 is supported on a pair of wheels 90 Fig. 4 is a fragmentary end elevation of 24 engaging the track 20 and having their one of the units taken on the line 4-4 of axes disposed radially of pivot bolt 23 as desired.

lated circular track 5 is provided mounted the platform 18 and that the passengers on a suitable frame work or scaffold 6. Track seated adjacent the outer ends of the cars 5 is preferably relatively narrow and includes will be swung swiftly from side to side as a plurality of depressed portions and a plu-the cars oscillate. The outer edges of platrality of crests or swells. A circular walk forms 18 are adapted to substantially regis- 100 ter with the inner edges of the walk 7 per- of the combined tilting of the platforms on mitting the participants to easily mount the two axes will cause the cars to rotate or spin,

5 connect the intermediate portions of the va- platforms ascends a crest with its passenger 70 keeping the same at the proper radially swing inwardly and forwardly. The pasdriven by means of an endless flexible mem-position to be partially rotated by the next 75 mounted on the under side of each platform tions and rotations of the various cars will be thereof. Cable 25 is crossed and passed over observed at one instant. Several of the cars a driving pulley 27 driven by bevel gear will be violently whipped or swung through 80 connection from a motor or suitable source of power 28. Cable 25 is also passed about a belt tightener 29 mounted adjacent motor 28 on a slidable bearing (not shown) yield-20 ingly held outwardly of said motor.

Operation

vice may be briefly summarized as follows: The passengers are admitted to the walk 7 through the entrance 9 and may pass around the device to enter the several cars 21. The power will be applied through the motor 28 and the revoluble frame will be driven in the 30 direction indicated by the arrows in Fig. 1. Each of the platforms 18 is mounted for tilting movement both from end to end and side to side. This is accomplished by the knuckle 35 the carrier arms 14 and the hub 13, as described. Since the outer ends of carrier arms 14 with the several platforms thereon are supported by means of a pair of wheels 9 engaging track 5 and having their axes disposed radially of hub 13, the several platforms 18 will be tilted from side to side and also from end to end as they pass over the undulations of the track. Thus, as shown in Fig. 3, when the passenger is passing over vention. a crest or swell of the track, platform 18 will What is claimed is ger is moved toward the crest the platform 18 ing an annular flange, a plurality of radially 115 the other. The oscillatory movement of the inner ends to said pins, wheels supporting the 120. oppositely at the next moment and they may ports and adapted to be sharply oscillated ac 125 be swung to one side of their respective plat- cording to the tilted position of said supports.

platforms and seat themselves in the cars. sometimes completing two or more rotations. Links or cables 24 are employed to inter- Complete rotation occurs when one of the rious carrier arms 14, bracing said arms and car substantially balanced in position to spaced position. The device may be revolved sage over the crest and down the descent will in any suitable manner but is preferably sometimes swing the car through 360° and in ber or cable 25 surrounding the several plat- crest and descent. To a person observing the forms 18 and engaging detents or hooks 26 entire device the irregularity of the oscilla-180° to 240°, while a few of the cars will be rotated or spun.

The positions of the several cars relative to their platforms is of course affected by centrifugal force but in constructing the de- 85 vice the hub 13 is disposed slightly below the mean level between the crests and valleys of The operation of the above described de- the main track. At its mean height on the track therefore, each of the platforms 18 will be tilted slightly inwardly and sidewise, thus 90 overcoming the effect of the centrifugal force.

> The suddenness and speed of the irregular swerves or oscillations of the cars may of course be varied by the abrupt or gradual ascent of the crests formed in the track.

From the foregoing description it will be observed that I have invented a new and pleasurable amusement device affording injoint connections between the inner ends of termittent and unexpected thrills to the passenger thereof. The revoluble frame needs 100 only to be driven at a fair speed to attain the results described, thereby insuring the safety of the passenger and requiring only a small amount of power.

It will, of course, be understood that va- 105 rious changes may be made in the form, detail, proportions and arrangement of parts without departing from the scope of the in-

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be tilted sidewise and inwardly as the piv
1. In amusement apparatus an undulated otal connection between the carrier arm 14 circular track, a standard mounted interiorand the boss 13 is below the level of the crest. ly and centrally of said track, a revoluble Moreover, as shown in Fig. 4, as the passen- member mounted on said standard and carrywill be tilted endwise and upwardly. The disposed pins journaled for oscillation in said tilting of the platforms 18 in either sidewise annular flange, a plurality of radially disor endwise direction cause the cars 21 to be posed carrier arms extending between said swung or swerved sharply in one direction or standard and said track and hinged at their cars is very irregular and cannot be prede- outer ends of said carrier arms from said termined by the rider. Since the platforms track, supports adjacent the outer ends of are tiltable on two different axes the cars may each of said carrier arms and a passenger car thus be faced rearwardly at one moment and eccentrically mounted on each of said sup-

form or the other side, and during the ride 2. An amusement apparatus comprising a around the undulated track they will have plurality of arms extending substantially racompleted several movements about their en-dially outwardly from a center, each of said 65 tire annular tracks 20. Oftentimes the effect arms being journaled for swinging movement 130

in a substantially vertical plane and for limited rotatory movement about an axis extending substantially radially of said center, a platform carried by each arm, a passenger a car eccentrically mounted for free rotation on each platform about a substantially vertical axis, and means to successively cause each platform to tilt from end to end and alternately from side to side in opposite directions, 10 whereby each car carried thereby is individually caused to oscillate or spin about its axis.

3. An amusement apparatus comprising a plurality of arms extending substantially radially outwardly from a central pivot each of said arms being journaled for swinging movement in a substantially vertical plane and for limited rotary movement about an axis extending substantially radially of said pivot, a platform carried by each arm, a passenger 20 car eccentrically mounted for free rotation on each platfrom about a substantially vertical axis, an undulated track and means secured to each platform at spaced points for engagement with said track whereby each platform 25 is caused to alternately tilt from side to side in opposite directions to individually oscillate or spin the car carried thereby about its axis.

4. An amusement apparatus comprising a 30 central pivot, an arm extending radially of said pivot, said arm being free to swing in a substantially vertical plane and to rotate about an axis extending lengthwise thereof, a platform secured to said arm, a passenger 35 car eccentrically pivoted to said platform and free to swing about its pivot, an undulated track arranged beneath said platform and bearings secured to said platform to support it on said track, said bearings being widely spaced apart, and means to cause said arm to move around said track.

5. In amusement apparatus an endless undulated track, an arm or sweep disposed radially of said track, means for causing said 45 arm to travel around said track, a pair of wheels disposed in tandem supporting the outer end of said sweep from said track, a platform fixed adjacent the outer end of said sweep, said sweep being mounted for oscillation on its longitudinal axis and being also mounted for oscillation on an axis disposed at right angles to said longitudinal axis, whereby said platform will be tilted from side to side and from end to end as said arm travels over the undulations of said track, and a passenger car freely supported on said platform for independent movement thereon in a circular path, the gyratory movement of said platform causing said car to sometimes 60 spin and sometimes oscillate.

dulated track, a revoluble member mounted supporting means follows the undulations of concentrically of said track, a plurality of said track, and passenger cars mounted on

each of said sweeps being supported from said track by means of a pair of wheels disposed in tandem, a platform fixed adjacent the outer end of each of said sweeps, said sweeps being mounted for oscillation on their longitudinal axes and being also mounted for os- 70 cillation on axes disposed at right angles to said longitudinal axes whereby said platforms will be tilted from side to side and also from end to end as said arm travels over the undulations of said track, and a passenger car freely supported on each of said platforms for independent movement thereon in a circular path, the gyratory movement of said platform causing said cars to sometimes spin and sometimes oscillate.

7. An amusement apparatus comprising a central pivot, a sweep or arm extending radially of said pivot, a connection between the inner end of said arm and said pivot comprising a pin journaled on a substantially horizontal axis in said pivot, and a hinge connection between the outer end of said pin and said arm to permit swinging of said arm in a substantially vertical plane and rotation 90 of said arm about an axis extending lengthwise thereof, a platform secured to said arm, a passenger car pivoted to said platform and free to swing about its pivot, an undulated track arranged beneath said platform and 95 bearings secured to said platform to support it on said track, said bearings being spaced apart and means to cause said arm to move around said track.

8. In an amusement device, a centrally lo- 100 cated hub, a plurality of rotatable and radially extending sweeps having their inner ends pivotally connected to said hub, an undulatory circular track, means on the outer ends of the sweeps engaging the track, a plurality 105 of platforms supported by the sweeps, passenger cars pivotally mounted on the platforms for free rotation about their pivotal points, said pivotal points being located substantially centrally of the platforms and 110 eccentrically of the cars.

9. In an amusement device, a central rotatable member, platforms revolving about the axis of said central member at some distance therefrom, a track surrounding said cen- 115 tral member and having undulations, means engaging said track at circumferentially spaced points thereon forming supports respectively for each of said platforms, means connecting each of said platforms with said central member for causing an inward and outward tilting movement of said platforms and for also permitting a tilting movement of said platforms about axes substantially 125 6. In amusement apparatus, a circular un- radial to said central member as said platform arms or sweeps connected with said revoluble said platforms for unrestricted eccentric romember and disposed radially of said track, tative movement thereon.

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10. In an amusement device, a central rotatable member, platforms revolving about the axis of said central member at some distance therefrom, a track surrounding said central member and having undulations, means engaging said track at circumferentially spaced points thereon forming supports respectively for each of said platforms, radially extending elongated means between 10 said central rotatable member and said platforms for causing an inward and outward tilting movement of said platforms and for also permitting a tilting movement of said platforms about axes substantially radial to 15 said central member as said platform supporting means follow the undulations of said track, and passenger cars mounted on said platforms for unrestricted eccentric rotative movement thereon.

In testimony whereof I affix my signature.
HERBERT W. SELLNER.

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