W. PASTURCZAK.

ROUNDABOUT.

APPLICATION FILED DEC. 10, 1921.

1,426,314.

Patented Aug. 15, 1922.

2 SHEETS—SHEET 1.

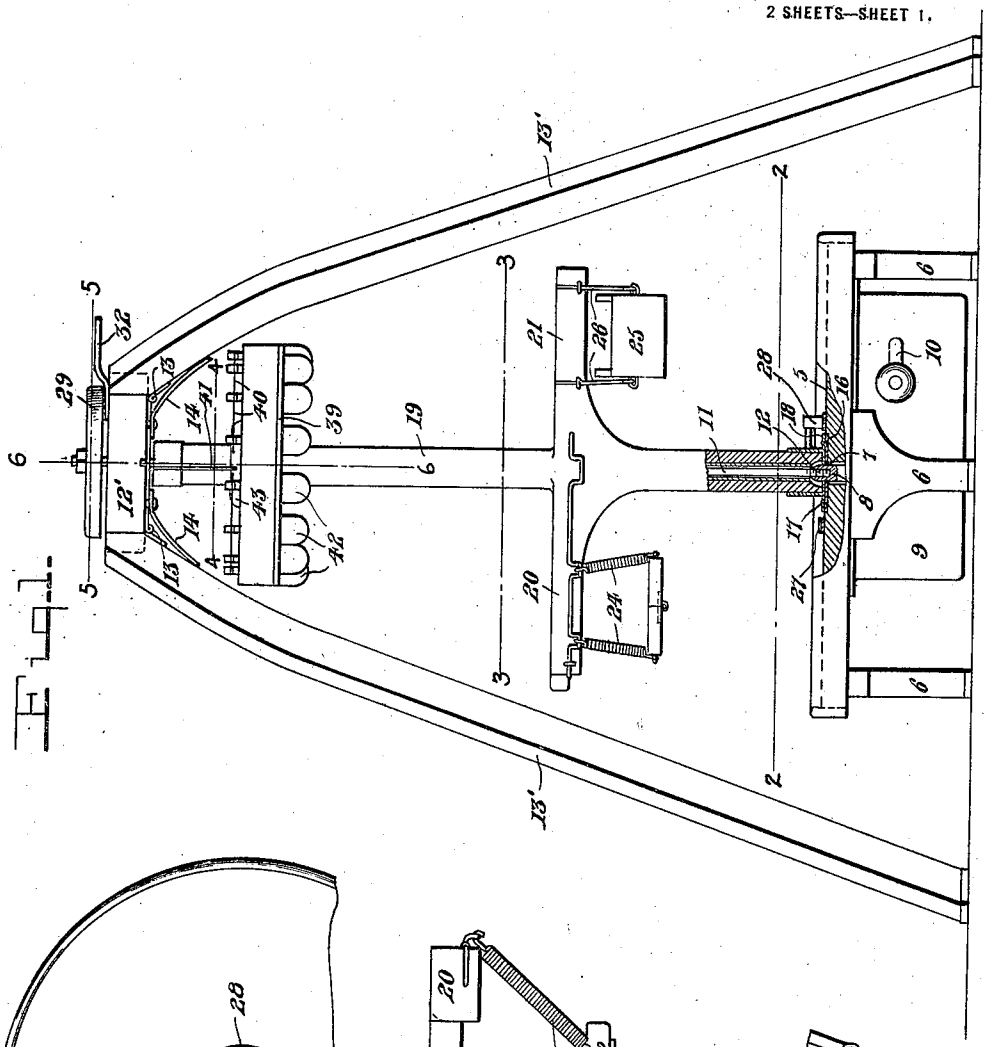

Fig. 1.

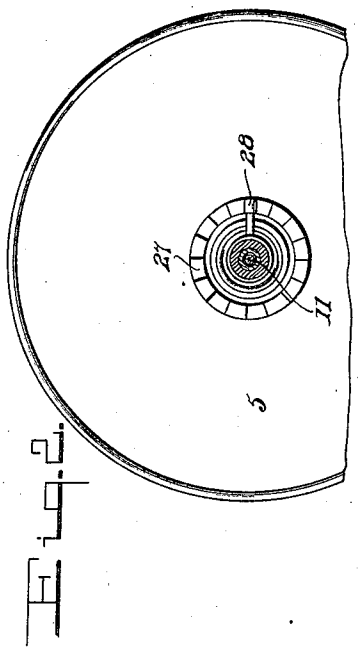

Fig. 2.

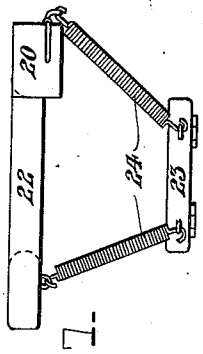

Fig. 3.

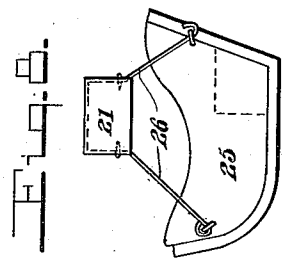

Fig. 4.

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2 SHEETS—SHEET 2.

Fig. 3.

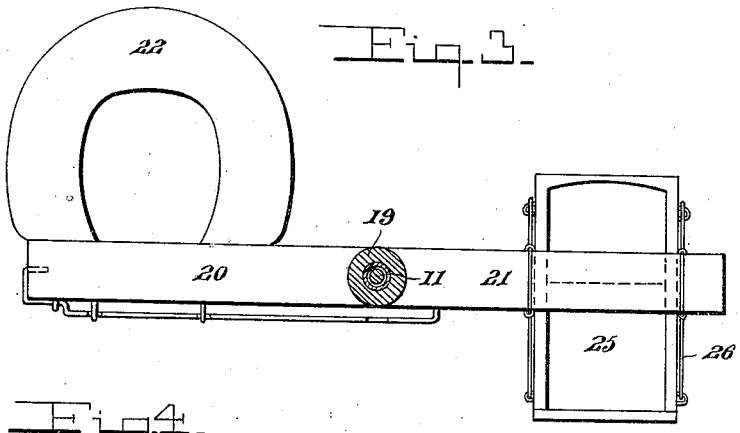


Fig. 4.

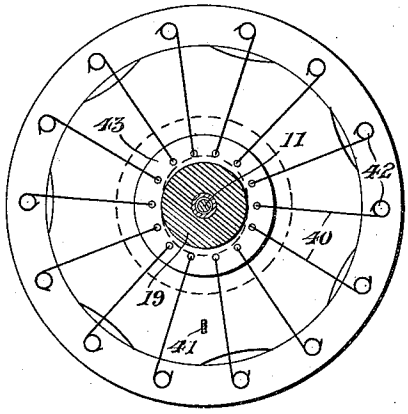


Fig. 6.

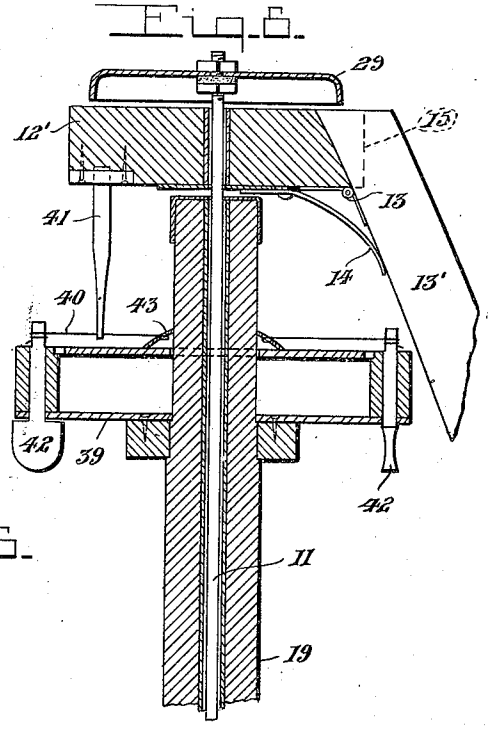
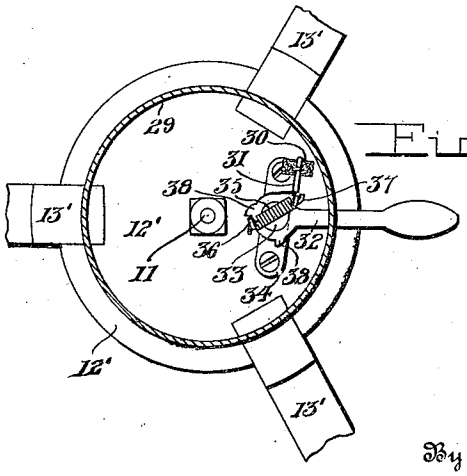


Fig. 5.



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UNITED STATES PATENT OFFICE.

WALTER PASTURCZAK, OF FAIRMONT, WEST VIRGINIA, ASSIGNOR OF ONE-HALF TO FRANK SZULC, OF FAIRMONT, WEST VIRGINIA.

ROUNDABOUT.

1,426,314. Specification of Letters Patent. Patented Aug. 15, 1922.

Application filed December 10, 1921. Serial No. 521,519.

To all whom it may concern:

Be it known that I, WALTER PASTURCZAK, a citizen of Poland, residing at Fairmont, in the county of Marion and State of West Virginia, have invented certain new and useful Improvements in Roundabouts, of which the following is a specification.

This invention relates to certain new and useful improvements in roundabouts adapted to provide a simplified and durable form of amusement device by means of which pleasure rides may be given to children.

The invention aims to provide a device of the above kind of generally simple and durable construction involving means of a desirable nature for producing musical sounds when the device is in operation.

Another object is to generally simplify and improve various parts of the device.

With the above general objects in view and others that will appear as the nature of the invention is better understood, the invention consists in the novel form, combination and arrangement of parts hereinafter more fully described in connection with the accompanying drawings, in which like reference characters indicate similar parts throughout the views.

In the drawings,

Figure 1 is a view partly in side elevation and partly in vertical section of a roundabout constructed in accordance with the present invention,

Figure 2 is a horizontal sectional view partly broken away and taken substantially upon line 2—2 of Figure 1,

Figure 3 is a horizontal sectional view taken substantially upon line 3—3 of Figure 1 and drawn on a larger scale,

Figure 4 is an enlarged horizontal sectional view taken substantially upon line 4—4 of Figure 1,

Figure 5 is a view similar to Figure 4 taken upon line 5—5 of Figure 1,

Figure 6 is an enlarged fragmentary view in vertical section on line 6—6 of Figure 1,

Figure 7 is a side elevational view of the baby jumper and its supporting arm and

Figure 8 is a view similar to Figure 7 of the car and its supporting arm.

Referring more in detail to the several views, the present invention embodies a platform 5 having suitable supporting legs 6 and provided with a central opening 7 through which the power shaft 8 of a suitable motor 9 rotatably projects. The motor 9 may be of the usual spring type having a winding handle 10 and embodying a casing rigidly secured to the under surface of the platform 5 with the power shaft 8 projecting upwardly through the opening 7 in a vertical position.

The upper end of the shaft 8 is provided with a screw threaded socket and another vertical shaft 11 has its lower end threaded into this socket as generally denoted by the numeral 12 so that rotation of the shaft 8 will cause rotation of the shaft 11.

The upper end of the shaft 11 extends freely through the top plate 12′ of a tripod or similar supporting structure which also embodies a plurality of legs 13′ hinged as at 13 near their upper ends to the edge of the plate 12′, the legs 13′ extending downwardly in diverging relation to also engage the surface upon which the legs 6 rest. By means of this tripod, the shaft 11 is steadied and held against lateral strains at its upper end. The legs 13′ are normally spreaded by means of suitable springs 14 which may be attached to the under surface of the plate 12′ and disposed with their free ends bearing against the inner edges of the legs 13′. As indicated in Figure 6, the plate 12′ is provided with peripheral notches 15 in which the upper ends of the legs 13′ are positioned to provide a more rigid and durable construction.

A disk 16 is attached to the power shaft 8 and rotatably disposed in a horizontal position in a circular recess in the upper surface of the platform 5 as shown in Figure 1, and said disk 16 is interlocked as at 17 with another disk 18 that is rigidly secured on the lower end of a hollow standard 19 through which the shaft 11 extends. It will thus be seen that rotation of the shaft 8 will thus be imparted to the hollow standard 19.

The standard 19 terminates in proximity to the under surface of the plate 12′ and is provided intermediate its ends with a plurality of radially projecting arms, two of which are preferably employed as at 20 and 21. The arm 20 rigidly supports the horizontal guard rail 22 of a baby jumper involving a foldable seat 23 yieldingly suspended by means of helical tension springs 24 from the forward part of the guard rail 22 and the arm 20.

A suitable car 25 somewhat similar in form to the body of a go-cart is suspended from the other arm 21 by means of diverg-

ing arms 26 which are of rigid construction so as to prevent any relative movement between the car 25 and the arm 21.

A ratchet ring 27 is fixed upon the upper surface of the platform 5 surrounding and concentric with the standard 19 and the latter is provided with a suitable pawl 28 arranged to engage the teeth of this ratchet ring in such manner as to permit rotation of the standard 19 in the proper direction by means of the motor 9 while preventing rotation of said standard in the opposite direction.

A bell-shaped drum 29 is suitably fastened upon the upper end of the shaft 11 above the plate 12′ so that its depending rim extends toward and in close proximity to said plate 12′ in position to be engaged by a suitable brake shoe 30 which is fastened upon a lateral arm 31 rigid with a pivoted lever 32 having its inner end pivoted as at 33 on the plate 34 which is rigidly fastened on the upper surface of the plate 12′ as shown clearly in Figure 5. A helical tension spring 35 has one end attached to a post 36 carried by the plate 12′ and has its other end attached as at 37 to a lug on the arm 31 of the lever 32. The hub portion of the lever 32 is provided with a pair of stop lugs 38 arranged to engage opposite sides of the post 36, and the spring 35 extends across the pivot 33 at one side of the center of said pivot when the shoe 30 is disengaged from the brake drum 29 and one of the lugs 38 engages the post 36 as shown in Figure 5. Also, when the lever 32 is swung to engage the other lug 38 with the post 36, the spring 35 will move past the center of the pivot 33 to the opposite side of said center and in this way the spring 35 serves to yieldingly hold the brake shoe 30 in either engaged or disengaged position.

In order to provide musical sounds automatically as the standard 19 is rotated, a circular hollow body 39 of a stringed musical instrument is secured on the upper portion of said standard 19 with its strings 40 in position to be successively engaged by a depending vertical pick 41 rigidly fastened to the under surface of the plate 12′ near the edge of the latter. This stringed musical instrument has its strings adjusted to the proper tone by means of a plurality of tuning pegs 42 arranged at the margin of the body 39 in the circular series, the strings 40 being radially disposed as shown in Figure 4 with their inner ends attached to a ring 43 surrounding the standard 19.

In operation, the motor 9 is started in any preferred or well known manner so as to drive the shaft 8 and, through the connections described, this will cause the shaft 11 and standard 19 to be rotated together with the parts carried thereby including the brake drum 29; arms 20 and 21; baby jumper 24; car body 25; and the body 39 and strings 40 of the musical instrument. At this time, the platform and the tripod remain stationary. When rotation of the standard 19 takes place the strings 40 successively engage the pick 41 for producing musical sounds and thus amusement is afforded to children seated in the car 25 and in the baby jumper. The car 25 is provided for younger children while older children may use the baby jumper, the seat 23 of which will sway and yield vertically from centrifugal action and other causes as the arms 20 and 21 rotate. Whenever it is desired to stop the roundabout, the motor 9 will be rendered inoperative and the brake shoe 30 applied. In this way, the device will be brought to a gradual stop and the pawl 28 will prevent backward rotation of the parts which is desirable particularly when the children are placed in the baby jumper and car or taken out of the same.

From the foregoing description, it is believed that the construction and operation of the present invention will be readily understood and appreciated by those skilled in the art.

Minor changes may be made without departing from the spirit and scope of the invention as claimed.

What is claimed as new is:

1. In a roundabout of the class described, a platform having supporting legs and provided with a central opening, a motor having a power shaft projecting vertically through said opening of the platform, a second shaft arranged in a vertical position and having its lower end rigidly connected to the upper end of said power shaft, a tripod for steadying the second named shaft including a plate member through which said shaft is rotatably mounted and which is provided with supporting legs, a hollow standard through which the second named shaft projects, means connecting said standard with said power shaft whereby the same will be caused to rotate in unison, radially projecting arms rigid with the intermediate portion of said standard, a car suspended from one of said arms, a yieldably suspended baby jumper seat associated with the other arm, a pick depending from and fastened to the plate member of said tripod, and a hollow musical instrument body having radial sounding strings disposed to be successively engaged by said pick as said standard is rotated, said body being fixed to said standard.

2. In a roundabout of the class described, a platform having supporting legs and provided with a central opening, a motor having a power shaft projecting vertically through said opening of the platform, a second shaft arranged in a vertical position and having its lower end rigidly connected to the upper

end of said power shaft, a tripod for steadying the second named shaft including a plate member through which said shaft is rotatably mounted and which is provided with supporting legs, a hollow standard through which the second named shaft projects, means connecting said standard with said power shaft whereby the same will be caused to rotate in unison, radially projecting arms rigid with the intermediate portion of said standard, a car suspended from one of said arms, a yieldably suspended baby jumper seat associated with the other arm, said second named shaft projecting upwardly above said plate member of the tripod and having a bell shaped brake drum fastened thereon, a brake shoe mounted upon the disk member, and means to yieldably retain the brake shoe in position out of or in engagement with said brake drum.

3. In a roundabout of the class described, a platform having supporting legs and provided with a central opening, a motor having a power shaft projecting vertically through said opening of the platform, a second shaft arranged in a vertical position and having its lower end rigidly connected to the upper end of said power shaft, a tripod for steadying the second named shaft including a plate member through which said shaft is rotatably mounted and which is provided with supporting legs, a hollow standard through which the second named shaft projects, means connecting said standard with said power shaft whereby the same will be caused to rotate in unison, radially projecting arms rigid with the intermediate portion of said standard, a car suspended from one of said arms, a yieldably suspended baby jumper seat associated with the other arm, the means for connecting the power shaft with the hollow standard comprising interlocking disks at the lower end of said standard.

4. In a roundabout of the class described, a platform having supporting legs and provided with a central opening, a motor having a power shaft projecting vertically through said opening of the platform, a second shaft arranged in a vertical position and having its lower end rigidly connected to the upper end of said power shaft, a tripod for steadying the second named shaft including a plate member through which said shaft is rotatably mounted and which is provided with supporting legs, a hollow standard through which the second named shaft projects, means connecting said standard with said power shaft whereby the same will be caused to rotate in unison, radially projecting arms rigid with the intermediate portion of said standard, a car suspended from one of said arms, a yieldably suspended baby jumper seat associated with the other arm, a ratchet ring upon the platform surrounding and concentric with said power shaft, and a pawl carried by said standard associated with said ratchet ring for rotation of the standard by said motor and to prevent rotation of the standard in a reverse direction.

5. In a roundabout of the class described, a platform having supporting legs and provided with a central opening, a motor having a power shaft projecting vertically through said opening of the platform, a second shaft arranged in a vertical position and having its lower end rigidly connected to the upper end of said power shaft, a tripod for steadying the second named shaft including a plate member through which said shaft is rotatably mounted and which is provided with supporting legs, a hollow standard through which the second named shaft projects, means connecting said standard with said power shaft whereby the same will be caused to rotate in unison, radially projecting arms rigid with the intermediate portion of said standard, a car suspended from one of said arms, a yieldably suspended baby jumper seat associated with the other arm, said baby jumper seat having its yieldable suspension means in the nature of helical tension springs, some of which are connected with the adjacent arm of the standard, and a guard rigid with the last named arm and having the remaining suspension springs of the baby jumper seat attached thereto.

In testimony whereof I affix my signature.

WALTER PASTURCZAK.