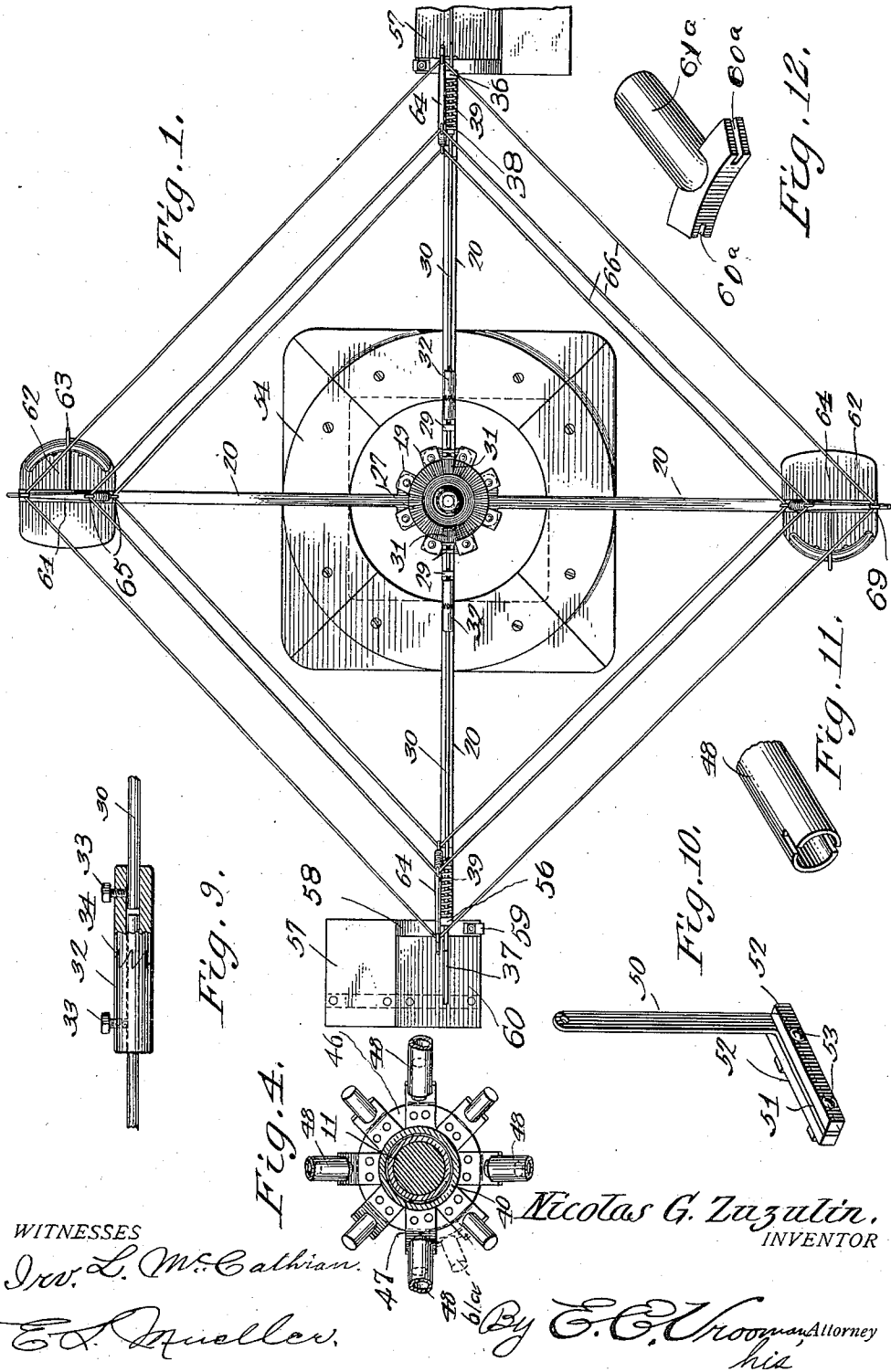


N. G. ZUZULIN.
COMBINATION CLOTHES LINE AND MERRY-GO-ROUND.
APPLICATION FILED AUG. 15, 1911.

1,028,418.

Patented June 4, 1912.

2 SHEETS—SHEET 1.



WITNESSES

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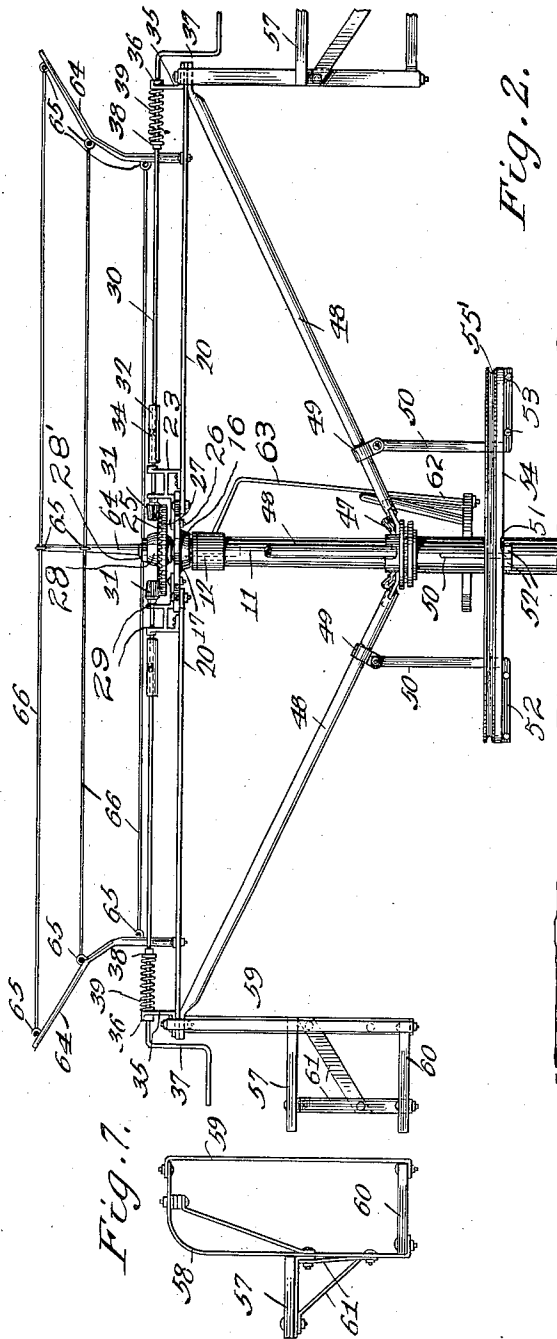


Fig. 2.

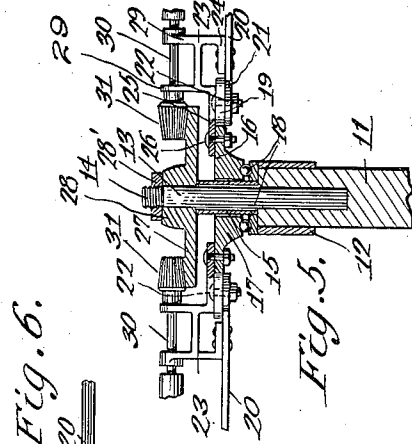


Fig. 3.

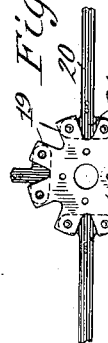


Fig. 4.

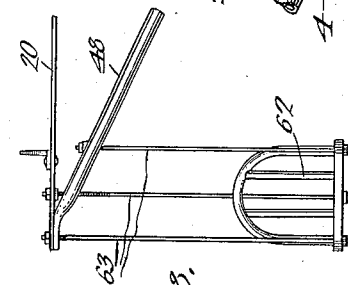


Fig. 5.

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UNITED STATES PATENT OFFICE.

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COMBINATION CLOTHES-LINE AND MERRY-GO-ROUND.

1,028,418.

Specification of Letters Patent.

Patented June 4, 1912.

Application filed August 15, 1911. Serial No. 644,179.

To all whom it may concern:

Be it known that I, NICOLAS G. ZUZULIN, a citizen of the United States, residing at Minot, in the county of Ward and State of North Dakota, have invented certain new and useful Improvements in Combination Clothes-Lines and Merry-Go-Rounds, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a combined merry-go-round and clothes line support, which is suitable for use in the home particularly for children although it is constructed sufficiently strong to support the weight of adults.

The principal object of the invention is to provide a device of the character described which will be simple in construction, durable and which can be manufactured at a low cost.

The invention contemplates providing a stanchion which has a plurality of supporting arms extending radially therefrom, said arms being provided at their ends with depending seats, a fixed gear wheel is mounted upon the stanchion, and means are carried by the supporting arms for manually rotating the frame.

The invention also contemplates providing a rotatable seat adjacent the base of the stanchion which is so constructed as to be driven by a motor when it is not desired to operate the merry-go-round manually.

A plurality of clothes line supporting arms are vertically arranged on the supporting arms above mentioned, thus providing a clothes line support.

In carrying out the objects of the invention generally stated above, it will be understood, of course, that the essential features thereof are susceptible of changes in details and structural arrangements, one preferred and practical embodiment being shown in the accompanying drawings, wherein:—

Figure 1 is a top plan view constructed in accordance with this invention. Fig. 2 is a side elevation thereof. Fig. 3 is a vertical sectional view of a rotatable collar mounted upon the stanchion and adapted to have a plurality of bracing rods secured thereto. Fig. 4 is a sectional view taken on the line 4—4, Fig. 3. Fig. 5 is a fragmentary vertical sectional view of the operating mechanism carried by the stanchion. Fig. 6 is a

view in plan showing the plate carried by the stanchion to which the supporting arms are secured. Fig. 7 is a side elevation of one of the seats in which the operator sits. Fig. 8 is a front elevation of one of the seats used in connection with the invention showing the means for attaching the same to the supporting arms and bracing rods. Fig. 9 shows a form of coupling used in connection with the operating shaft. Fig. 10 is a detail perspective view of a support for the radial seat which is connected to the stanchion adjacent the base thereof. Fig. 11 is a detail perspective view of one end of the brace rod which is used in connection with the present invention. Fig. 12 is a perspective view of a supporting clamp or socket adapted to receive the inner end of the brace rod.

Referring to the accompanying drawings by numerals it will be seen that the improved device comprises a central stanchion 11 which is provided with a metallic end cap 12. Projecting from the upper end of said stanchion and through said cap is a vertical shaft 13 having a threaded end 14. Said shaft is provided with a bearing sleeve 15 having one end abutting the upper end of the stanchion 11 so that it is in engagement with the opening formed in the top of the cap 12, said opening being a trifle larger in diameter than the shaft 13. A plate 16 having an enlarged central portion 17 is mounted upon the shaft 13 and engages the sleeve 15 and is provided upon its under surface with a ball bearing race in which the balls 18 rest. The periphery of the plate 16 is formed with a plurality of radially extending lugs 19 to which the horizontal extending supporting arms 20 are attached. These arms are provided upon their inner ends with the enlarged portions 21, which are secured at each end to adjacent lugs 19 by means of bolts 22. The arms 20 are held in a radial position by means of braces 23 which have one end 24 riveted to said arms and the other end 25 bolted to the plate 16 by means of the bolts 26. Mounted upon the vertical shaft 13 and abutting against the upper end of the sleeve 15 is a beveled gear wheel 27 having an enlarged central portion 28. Said gear wheel is fixed upon the shaft 13 and secured thereto by means of a nut 28' which engages the threaded portion 14 of said shaft. Each brace is also provided with a pair of vertical arms 29 integral with the main portion of the braces

and having the free ends provided with transverse openings to provide a journal for the operating shafts 30. The inner ends of said shafts are each provided with a beveled pinion 31 which meshes with the gear wheel 27. The shafts 30 are composed of two sections which are joined by the separable coupling 32, said coupling being detachably secured to portions of said shafts by means of set screws 33 and having toothed inner ends 34 which are adapted to be in interlocking engagement when said shafts are in an operable position.

The extreme outer ends of the supporting rods are provided with angular brackets 35 which are provided at their upper ends with the bearing sleeves 36. The outer extremity of each operating rod is provided with a handle 37 and adjacent the bracket 35 there is mounted upon said shaft a collar 38. A coil spring 39 is wound about each shaft between the bearing sleeves 36 and collar 38. Said spring is adapted to normally retain the portions of the coupling in a locking position and thus permit of the rotation of the pinions 31 when the handle 37 is turned.

Intermediate the ends of the stanchion the same is provided with a sleeve 40 which is provided with an annular flange 41; said sleeve being supported upon said stanchion by means of the shoulder 42. A lower bearing plate 43 is mounted upon the sleeve 40 and rests upon the flange 41. An upper plate 44 is also mounted upon the sleeve and interposed between said plates is a ball bearing 45. The plate 44 is provided upon its periphery with an annular shoulder or flange 46 which is adapted to receive the flattened portions of end pieces 47 of the diagonally extending bracing rods 48. The outer ends of said bracing rods are bent and reduced and lie beneath the outer extremities of the supporting rods 20. Each of the rods 48 is provided adjacent its inner end with a collar 49 which has depending therefrom a supporting arm 50 which is provided at its lower end with an angular extension 51. On each side of said extension 51 there is secured thereto a longitudinally extending cleat 52 by means of the bolts and nuts 53. This angular extension together with the cleats on each side thereof provides a wide supporting arm for a rotary seat 54 having the peripheral groove 55' which is adapted to be engaged by a belt when it is desired to drive the merry-go-round by motive power.

Depending from the extreme ends of the rods 20 which are directly under the operating shafts 30 are the seats 57. Said seats comprise a pair of spaced vertical supporting bars 58 and 59 which are secured to the ends of the rods 20 and braces 48, the lower ends of said bars being connected by a foot rest 60. The seat 57 is supported by the

bars 58 and 59 by means of the braces 61. The extreme ends of the rods 20 other than those directly under the operating shafts are also provided with depending seats 62, which are connected to said supporting rods 20 and bracing rods 48 by means of the depending rods 63.

The clothes line support used in connection with this invention comprises a plurality of vertical supporting arms 64 which are secured to the rods 20 adjacent their extremities. Each of the supporting arms 64 is made up of a plurality of angular sections and each section is provided with a ring 65. These rings are arranged on the arms so that the same will not be in vertical alinement and the clothes lines 66 which are passed through said rings will be wider apart at the top than at the bottom so that the pieces of clothing depending therefrom will not interfere with each other when hanging on the lines.

It will be understood, of course, that the invention is not limited to the number of supporting arms and seats, which may be mounted upon the stanchion for it will be seen that any number of these may be used in the construction of this invention, four being used in the drawings for the purpose of clearer illustration.

When it is desired to use sixteen brace rods the socket as disclosed in Fig. 12 may be used whereby the slotted ends 60^a may fit over the edges of the flattened portions of the end pieces 47 as illustrated in dotted lines in Fig. 4. It will be noted that when eight arms only are used the flattened portions of the end pieces 47 have their outer ends spaced apart so that they will readily enter the grooves 60^a. The socket shown in Fig. 12 is provided with a tubular socket or sleeve portion 61^a which may receive the inner end of a brace rod used in connection with the present device as for instance the brace rod 48. It will be obvious that the socket may be further readily attached to the present device since the slotted end 60^a may easily slide over the comparatively thin plates 47.

What I claim is:—

1. A device of the character described comprising a stanchion, a cap secured to the upper end thereof, a vertical shaft projecting from said end, a sleeve on said shaft, a plate mounted on said sleeve and provided with radially extending lugs on its periphery, supporting arms secured to said lugs, seats depending from said supporting arms, and operating means carried by said vertical shaft and said supporting arms.

2. A device of the character described comprising a stanchion, supporting arms carried thereby and rotatable therearound, braces for said supporting arms, collars on said braces, angular supporting arms de-

pending from said collars, a seat supported upon said angular arms, and means for rotating said seat.

3. A device of the character described
5 comprising a stanchion, supporting arms carried thereby, braces for said supporting arms, angular supporting arms depending from said braces, cleats on each side of the free ends of said angular arms, a seat carried by said angular arms, and means for
10 rotating said supporting arms.

4. In a device of the kind described, a stanchion, a collar revolubly mounted on said stanchion and provided with a plurality of laterally extending arms provided
15

with end pieces having flattened portions, sockets each comprising a substantially T-shaped member having the ends of the head grooved, said flattened portions being engaged by said grooves, a second collar revolubly mounted on said stanchion, and braces connecting the outer ends of said arms with said second collar. 20

In testimony whereof I hereunto affix my signature in presence of two witnesses.

NICOLAS G. ZUZULIN.

Witnesses:

DORR H. CARROLL,
JOHN L. FAHEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."