B. E. HARRELD.

REVOLVING CLOTHES DRIER.

APPLICATION FILED OCT. 17, 1914.

1,159,217.

Patented Nov. 2, 1915.

2 SHEETS—SHEET 1.

Fig. 1.

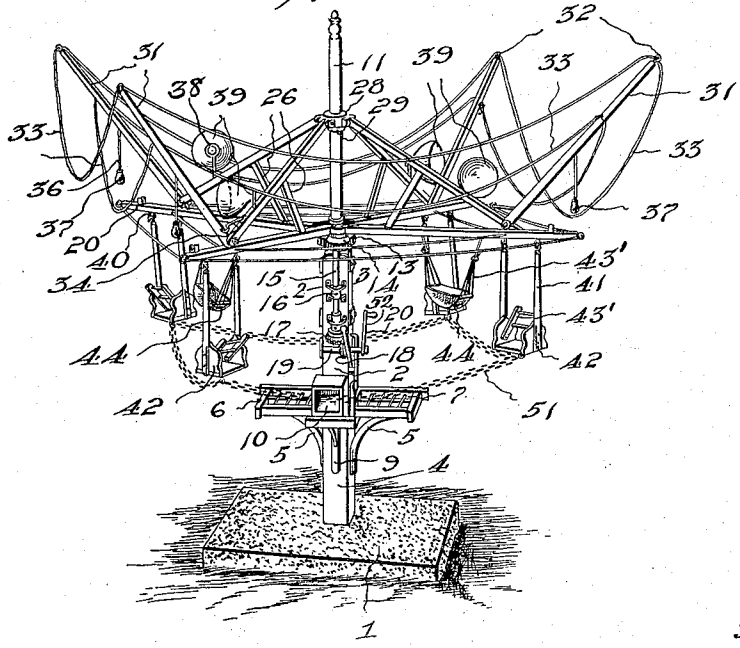
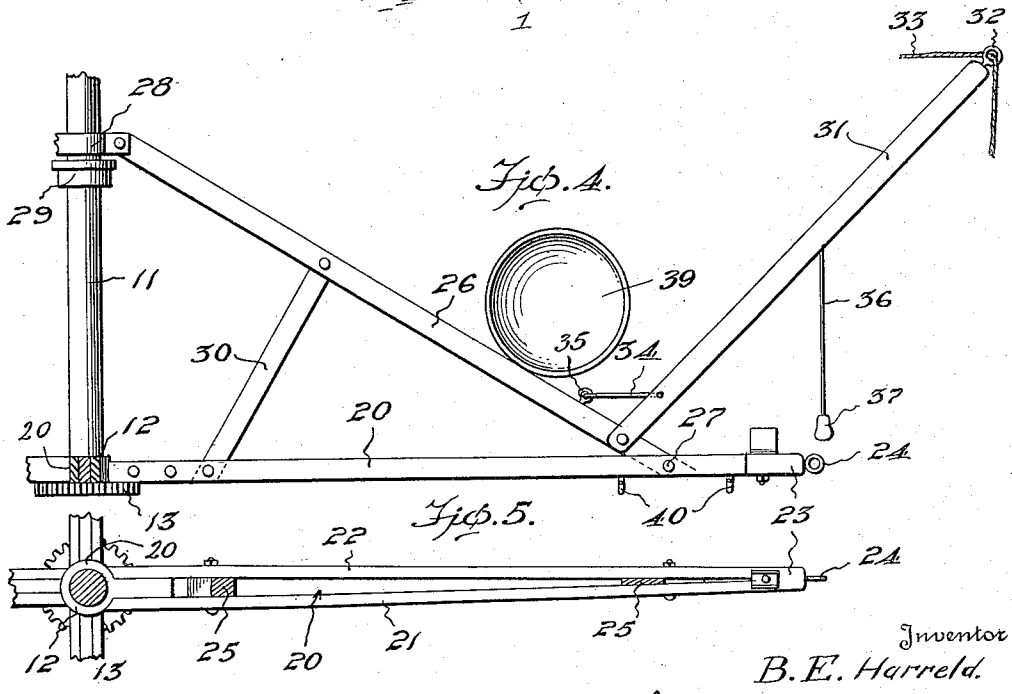


Fig. 4.



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2 SHEETS—SHEET 2.

Fig. 2.

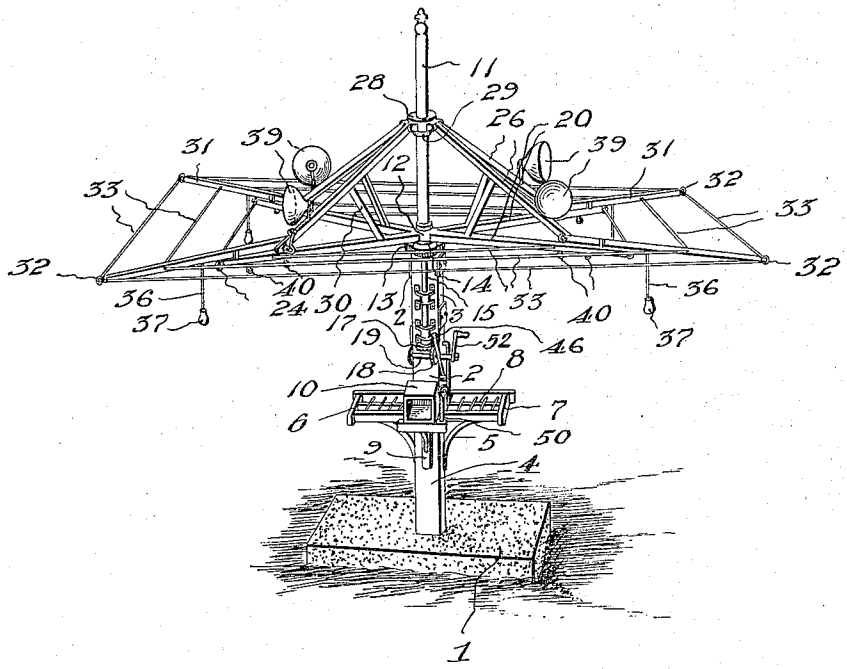


Fig. 3.

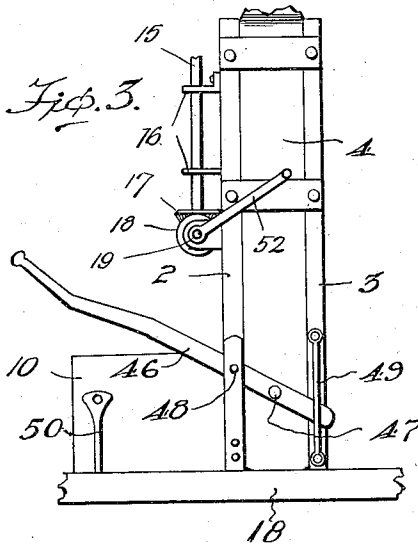
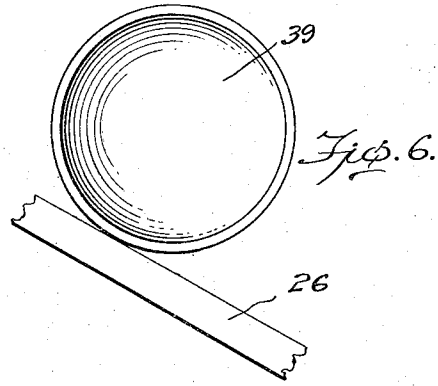


Fig. 6.



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REVOLVING CLOTHES-DRIER.

1,159,217. Specification of Letters Patent. Patented Nov. 2, 1915.

Application filed October 17, 1914. Serial No. 867,194.

To all whom it may concern:

Be it known that I, BENJAMIN E. HARRELD, a citizen of the United States, residing at Eldon, in the county of Wapello and State of Iowa, have invented certain new and useful Improvements in Revolving Clothes-Driers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to a clothes drier and more particularly to a clothes drier which is applicable for use as a circle swing if desired.

The primary object of this invention is the provision of a device as specified which has a rotary frame carried by a vertically adjustable post, which rotary frame is provided with a plurality of pivoted arms for movement into or out of a horizontal position for converting the device into or from a clothes drier or circle swing as desired.

Another object of this invention is the provision of a vertical shaft and sets of gearings which are connected to the rotary frame and the crank shaft by means of which the frame may be rotated upon the actuation of the crank shaft.

Another object of this invention is the provision of bell-shaped wind receivers which are attached to the rotary frame for rotating the frame by the current of the wind or air.

With the foregoing and other objects in view this invention consists in such novel features of construction, combination and arrangement of parts as will be hereinafter more fuly described, illustrated in the accompanying drawings and claimed.

In describing the invention in detail reference will be had to the accompanying drawings wherein like characters designate like or corresponding parts throughout the several views, and in which:—

Figure 1 is a perspective view showing the device employed as a circle swing. Fig. 2 is a perspective view showing the device employed as a clothes drier. Fig. 3 is a fragmentary side elevation showing the manner of shifting the vertical shiftable rod. Fig. 4 is a fragmentary view of a part of the rotatable frame. Fig. 5 is a plan view of a part of the rotatable frame, and Fig. 6 is a fragmentary view in side elevation of a part of the rotatable frame showing the wind receiving bell mounted thereupon.

Referring more particularly to the drawings, 1 designates the supporting base of the device which may be constructed of concrete or any suitable material and which has secured thereto two vertical guiding bars 2 and 3, which have positioned between their facing sides a vertical standard 4. The vertical standard 4 has secured thereto a plurality of bracket arms 5, which arms support a seat structure 6. The seat structure 6 comprises a substantially rectangular frame 7 which has a foraminous bottom 8 positioned centrally therein to permit of the circulation of air through the cushion or padding which is placed upon the seat.

The guide 2 has a bracket 9 secured thereto which supports a retaining box 10 which is provided for the reception of clothes pins or other device which might be used in connection with the circle swing and clothes line support.

The vertical standard 4 has its upper end reduced and circular in cross section as is clearly shown at 11 in Figs. 1 and 2 of the drawings. The circular portion 11 has mounted thereupon a collar 12, which collar has a gear 13 formed integrally therewith. The gear 13 meshes with a second gear 14 which is carried by the upper end of a vertical shaft 15. The vertical shaft 15 is supported by suitable bearings 16 to one side of the standard 4 and it has a beveled gear 17 mounted upon its lower end which meshes with a second beveled gear 18. The bevel gear 18 is mounted upon a shaft 19 which extends transversely across the standard and has a crank handle 52 mounted upon its lower end. The crank handle 52 is provided for rotating the shaft 19 which will rotate the vertical shaft 15 through the

meshing of the beveled gears 17 and 18 and in turn rotate the collar through the meshing engagement of the gears 13 and 14.

The collar 12 has secured thereto in any suitable manner a plurality of radiating arms 20. The arms 20 are composed of two strips 21 and 22 which have their outer ends converging and secured together by suitable caps 23 which have rings 24 formed on their outer ends. The strips 21 and 22 which form the arms 20 are braced by bracing blocks 25 which are inserted between the facing sides of the strips and secured thereto by bolts or other suitable fastening means. The arms 20 have secured thereto bracing rods 26, which extend upwardly from the point 27, to connection with the arms to a collar 28, which is rotatably mounted upon the reduced end 11 of the standard 4 and it is held against downward movement by a collar 29. The braces 26 are in turn braced by brace carrying arms or bars 30 which are secured to the arms 20 a short distance outwardly from the inner end of the arms.

The bracing arms 26 have pivotally connected thereto arms 31, which have hooks or eyelets 32 secured at their outer ends and form guides for ropes 33 which are employed for hanging clothes for drying. The arms 31 have hooks 34 swivelly connected thereto which are provided for engagement with hooks 35 carried by the braces 26 for holding the arms 31 in an upwardly non-clothes supporting position when the device is used as a circle swing as is shown in Fig. 1 of the drawings. The arms 31 have secured thereto and hanging pendently therefrom ropes 36, which have knobs 37 mounted upon their lower end. The ropes 36 are provided for pulling the arm 31 downwardly upon the release of the hooks 34 from the eyes 35. The bracing arms 26 have secured thereto upstanding brackets 38, which have their upper ends enlarged and provided with openings for receiving the reduced portions of the wind bells 39. The wind bells 39 are substantially cone-shaped and are provided for forming resistant members for the wind, so that the wind may be used for propelling or rotating the frame work when in elevated position.

The arms 20 have hooks 40 secured to their surface said hooks being provided for receiving and supporting the hanging arms 41 of swings 42 or for receiving the hanging 43′ of hammocks 44, when the arms 31 are in an elevated position and the device is used as a circle swing. The swings 42 which are supported by the arms 41 have pivoted backs 43, which may be reversed, depending upon the direction of travel of the arms 20.

The vertical standard 4 has a lever 46 pivotally connected thereto as at 47, said lever being fulcrumed at 48 upon one of the vertical guide bars and having its forward end seated in a guideway 49. The lever 46 is provided for raising or lowering the vertical standard 4, and when it is in its downward position the standard 4 is raised for elevating the frame which is rotatably mounted thereupon out of reach and obstructing position when clothes are hanging upon the ropes 33. The seat structure 8 carries a latch or catch 50 which engages the lever 46 and holds it in a downward position.

From the foregoing description taken in connection with the accompanying drawings the advantages of construction and of the method of operation of the improved combined circle swing and clothes drier will be readily apparent to those skilled in the art to which this invention appertains, and while in the foregoing description, the principle of the operation of this invention has been described together with various features of construction, it is to be understood that certain minor features of construction, combination and arrangement of parts may be altered to suit practical conditions provided such alterations are comprehended within the scope of what is claimed.

What is claimed is:—

1. In a device as set forth, a supporting base, a pair of vertical guide bars carried by said base, a vertical standard positioned between said guide bars and having its upper end reduced and circular in cross section, a collar rotatably mounted upon said reduced end, a plurality of radiating arms carried by said collar, a second rotatable collar mounted on said reduced end above the first mentioned collar, inclined arms pivotally secured to said second mentioned collar, and to said radiating arms, arms pivotally connected to said bracing arms for movement into or out of a horizontal plane, said pivoted arms having ropes secured thereto and stretched from one arm to another, means for raising and lowering said vertical standard, and means carried by said vertical standard for rotating said collar and said radiating arms.

2. In a device as set forth, a supporting base, a pair of vertical guide bars carried by said base, a vertical standard adjustably mounted between said guide bars, said standard having its upper end reduced and circular in cross section, a collar rotatably mounted upon said reduced end, a gear formed integrally with said collar, a vertical shaft rotatably supported by said vertical standard, means connected to said vertical shaft for rotating said shaft and said collar, a plurality of radiating arms secured to said collar, bracing arms secured to said radiating arms and extending upwardly therefrom at an incline, a plurality of arms

pivotally connected to said inclined bracing arms, said last named arms having a plurality of eyelets carried thereby, ropes secured to said bars and extending through said eyelets, and a plurality of hooks secured to the under surface of said radiating arms.

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

BENJAMIN E. HARRELD.

Witnesses:
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FRANK M. COX.

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