

P. D. RIORDAN.

CLOTHES DRIER.

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1,069,475.

Patented Aug. 5, 1913.

Fig. 1.

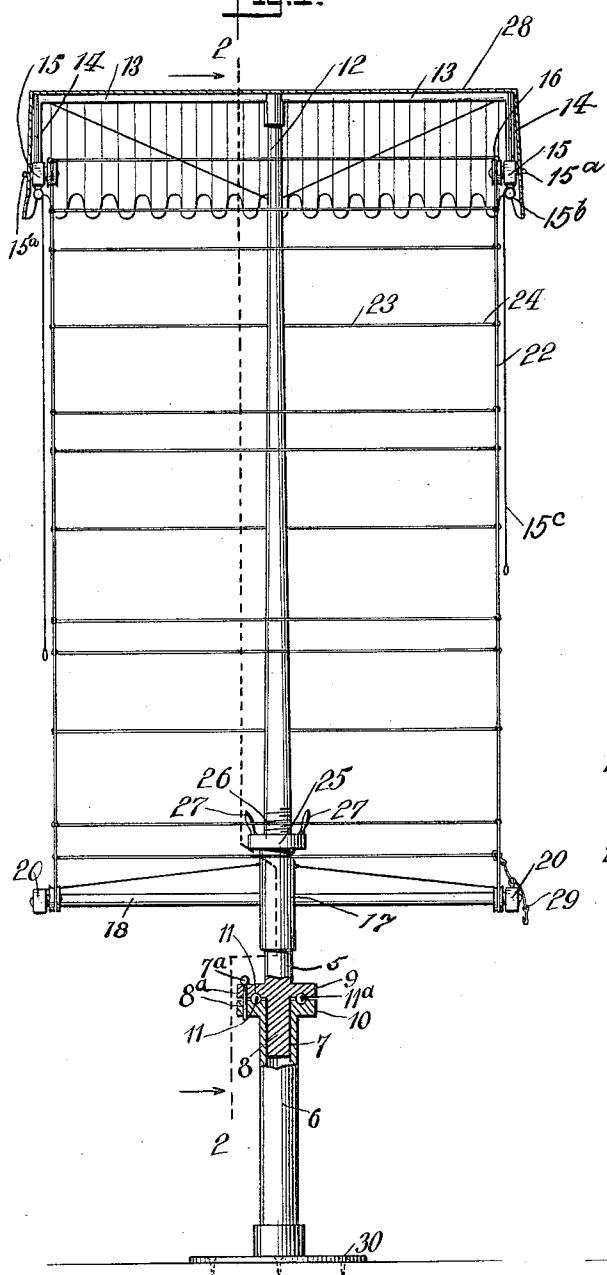
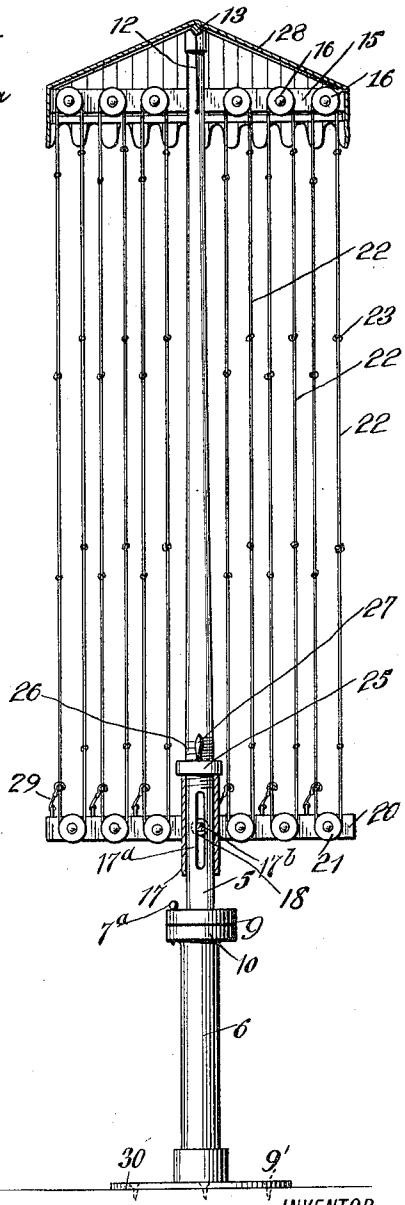


Fig. 2.



WITNESSES

J. B. Marshall
J. B. Marshall

INVENTOR
Patrick D. Riordan
BY *Munn & Co.*
ATTORNEYS

UNITED STATES PATENT OFFICE.

PATRICK D. RIORDAN, OF NEW YORK, N. Y.

CLOTHES-DRIER.

1,069,475.

Specification of Letters Patent.

Patented Aug. 5, 1913.

Application filed December 4, 1912. Serial No. 734,874.

To all whom it may concern:

Be it known that I, PATRICK D. RIORDAN, a citizen of the United States, and a resident of the city of New York, borough of 5 Manhattan, in the county and State of New York, have invented a new and Improved Clothes-Drier, of which the following is a full, clear, and exact description.

The present invention has for its object 10 the further development of the principles enunciated in a former patent granted to the applicant, under No. 1,035,640, so as to greatly reduce the cost of construction of the drier, extend its field of usefulness and, 15 by the employment of new devices in this field, to multiply its capacity, increase its drying efficiency, simplify its construction and operation, and provide an easily portable and distinctly ornamental apparatus 20 for drying clothes, or daily airing them after use, with marked economy of time, and of space, since for a given height my present drier can carry twice as much clothes as a similar drier that cannot be 25 completely revolved upon its axis, as this one can be.

Additional objects of the invention will appear in the following complete specification, in which the preferred form of my 30 invention is described.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in both 35 views.

Figure 1 is an elevation showing my invention; and Fig. 2 is a sectional view on the line 2-2 of Fig. 1.

By referring to the drawings it will be 40 seen that a projecting or upper supporting member 5 is provided, which member is carried in any suitable manner, as by the lower supporting member 6, into a cylindrical opening 7 in the upper end of which 45 the depending portion 8 of the member 5 is so snugly but smoothly fitted as to be easily rotated within it, and is extended sufficiently far downward into said opening to insure its being held in a vertical position. The member 5 has a flange 9 which 50 overlaps the flange 10 extending from the

upper end of the lower supporting member 6. The flanges 9 and 10 may both be circularly grooved as at 11 on their opposing surfaces so as to carry small metallic balls 55 11^a for the purpose of forming at this line an easy-acting ball bearing joint.

The revolving movement of the upper supporting member 5, and consequently of the entire drier proper which is directly 60 or indirectly attached to said member may be readily arrested by means of the pin 7^a which may be passed through the holes 8^a circularly arranged around the flanges 7 and 8 for that purpose. 65

On the top 12 of the standard 5 there are secured frames consisting of a transverse member 13 which has depending terminals 14, having secured thereto horizontal arms 15 which are provided for carrying the pulleys 16, which are spaced apart along each of the horizontal arms 15. Disposed on the standard 5 near its bottom there is a sleeve 17 to which is secured a frame, consisting of horizontal members 70 18 and the horizontal arms 20 which are carried by the members 18 and are disposed below the horizontal arms 15 and in substantially the same vertical plane. At the bottom of the device pulleys 21 are provided which are carried by the horizontal arms 20, these pulleys 21 being spaced apart in the same manner as are the pulleys 16. As will best be seen by referring to Fig. 2 of the drawings, these pulleys 16 and 80 21 are connected by endless ropes 22. Transverse ropes 23 having terminals 24 are secured to the endless ropes 22, the transverse ropes 23 serving as supports for the clothing which is to be dried. 85 90

Mounted on the standard 5 above the sleeve 17 there is a collar 25 having an inner thread which meshes with the outer thread 26 on the standard 5. This collar 25 has hand members 27 by which it may be 95 conveniently rotated relatively to the standard 5, and with its thread meshing with the thread 26 on the standard 5, so that the collar 25 may be used to press the sleeve 17 downward, carrying therewith the transverse members 18 and the horizontal arms 20 to hold the endless ropes 22 taut. Ex- 100

tending through the lower portion of the upper supporting member 5, inside the lower part of the sleeve 17, there is a slot 17^a which runs parallel to the transverse member 13. The pin 17^b passes through this slot and through the sleeve 17 and is fastened thereto so as to hold the lower framework 18, 20, parallel to the upper framework 13, 15, respectively, and therefore, to hold the endless cords 22, on either side of the drier, parallel with one another. Disposed over the transverse members 13 and held extended by the horizontal arms 15 there is a canopy or awning 28 which 15 serves in a measure to protect the clothing hung on the transverse ropes 23 from showers and from any dust falling from above, the sides of the awning being held in position by cords 15^a connecting corresponding 20 ends of the arms 15, said ends of the arms 15 being also provided with fixtures 15^b for the attachment of shades 15^c for the further protection of the contents of the drier against rain and so forth.

25 Secured to one of the horizontal arms 20 there are hooks 29 which are adapted to engage the transverse ropes 23 for holding the ropes 22 relatively to the standard 5.

The operation of my new clothes drier 30 may be briefly described as follows: The base 30 of the central supporting mechanism 5 and 6 having been suitably fastened to a floor or other surface, as by the screws 9', the collar 25 is, by means of the hand members 35 27, screwed down upon the sleeve 17 till the endless cords 22 are made sufficiently taut to form fairly rigid supports for, and to properly extend, the transverse lines 23 upon which the clothes are to be hung. The upper supporting member 5 is now rotated 40 upon its axis till one side of the drier faces the operator, and the apparatus is fixed in this position by means of the pin 7^a. Now, since only a little more than one half of each 45 of the endless cords 22 need be fitted with the transverse cords 23, or clothes lines proper, those transverse cords may be rolled up over the pulleys 16 till a perfectly clear open space lies between the operator and the 50 central support, and if, as is shown in the accompanying drawings, the drier be fitted with six sets of pulleys at each side, the operator now draws down the lower transverse cords of the third set of pulleys to a convenient 55 position, fastens it in this position by means of the cords and hooks at their ends shown at the lower sets of pulleys, and proceeds to cover it with cloths. The next transverse line, above, is next drawn down 60 and covered, and so on till the first line covered has been passed under the lower sets of pulleys and up to the top of the drier—the whole being held in this position as described. The transverse lines of the second 65 and first sets of pulleys are similarly covered

in rotation, and in turn secured in position. On removing the pin 7^a the upper supporting mechanism is again rotated upon its axis till the opposite side of the drier faces the operator, when it also may be similarly covered and secured in position. 70

Different aspects of the drier may thereafter be from time to time turned to the sunlight or the breeze, and held in the desired position by means of the pin 7^a, or on withdrawing the pin entirely the drier may be gently pushed around. When the clothes are removed from the drier the pressure should be removed from the sleeve 17 by unscrewing the collar 25 a little, thus releasing the tension on the endless ropes 22 and preventing their snapping under the effects of rain, the weight of the framework 18, 20, being quite sufficient to retain the endless cords 22 in their places on the lower sets of pulleys when the drier is not in use. 80

I desire that it be agreed that I may make whatever changes in the shape, size and relative arrangement of the parts, as fairly fall within the scope of my invention, and that 90 wires may be substituted for cords.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. In a clothes drier, a projecting member 95 having a threaded portion, a frame secured to the projecting member, a sleeve disposed on the projecting member, a frame secured to the sleeve, pulleys on the frames, ropes connecting the pulleys, and a threaded member meshing with the thread on the projecting member and normally engaging the sleeve for holding the ropes taut. 100

2. In a clothes drier, a projecting member, a laterally extending member secured to the projecting member, a sleeve disposed on the projecting member, a laterally extending member secured to the sleeve, horizontal arms secured to the laterally extending members and disposed at angles therewith, pulleys 110 mounted on the horizontal arms, ropes connecting the pulleys, and means connecting the ropes for supporting clothes to dry. 115

3. In a clothes drier, a projecting member, a frame secured to the projecting member, a sleeve disposed on the projecting member, a frame secured to the sleeve, pulleys on the frames, and ropes connecting the pulleys. 120

4. In a clothes drier, a projecting member having a transverse slot, a frame secured to the projecting member, a sleeve disposed on the projecting member, a pin disposed in the slot and connected with the sleeve, a frame secured to the sleeve, pulleys on the frames, and ropes connecting the pulleys. 125

5. In a clothes drier, a projecting member having a threaded portion, and a transverse slot, below the threaded portion, a frame secured to the projecting member, a sleeve disposed on the projecting member, a pin dis- 130

posed in the slot, and connected with the sleeve, a frame secured to the sleeve, pulleys on the frames, ropes connecting the pulleys, and a threaded member meshing with the 5 thread on the projecting member, and normally engaging the sleeve for holding the ropes taut.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

PATRICK D. RIORDAN.

Witnesses:

EVERARD B. MARSHALL,
PHILIP D. ROLLHAUS.

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