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C. E. AZWELL

1,933,203

CLOTHES DRYING APPARATUS

Original Filed March 17, 1931

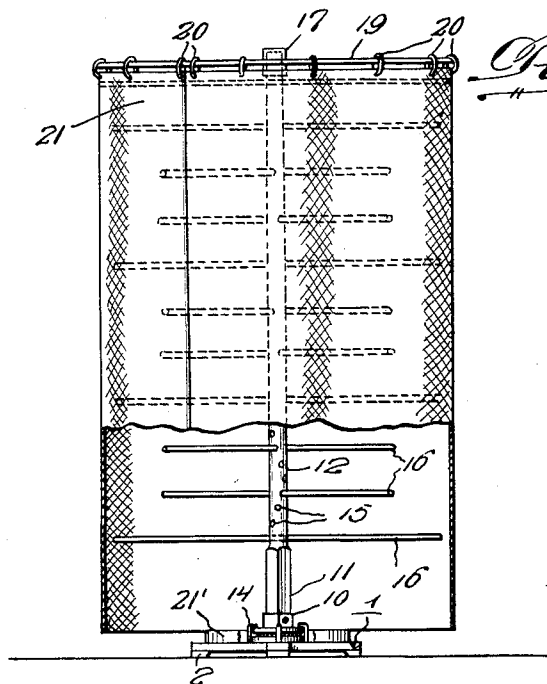


Fig. 1.

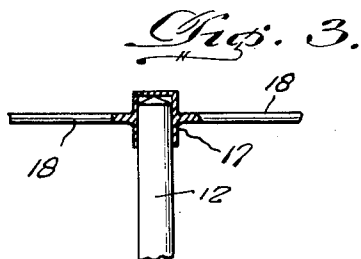


Fig. 3.

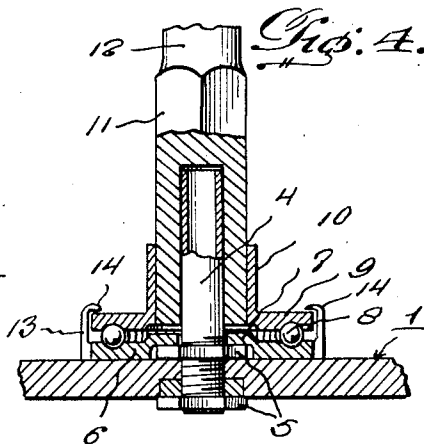


Fig. 4.

Fig. 2.

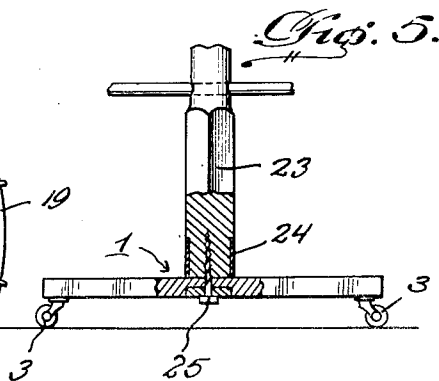
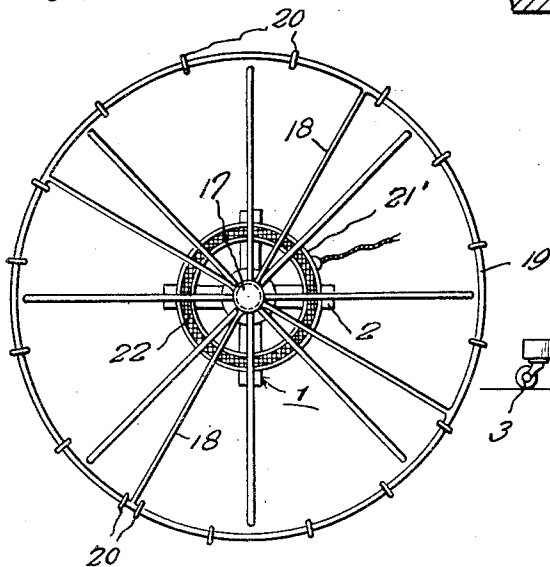


Fig. 5.

Charles E. Azwell,
INVENTOR.

BY *J. Stanley Birch*
ATTORNEY.

UNITED STATES PATENT OFFICE

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CLOTHES DRYING APPARATUS

Charles E. Azwell, Evansville, Ind.

Application March 17, 1931, Serial No. 523,312

Renewed March 21, 1933

3 Claims. (Cl. 34-26)

My present invention has reference to a clothes drying apparatus and has for its primary object the provision of a standard provided with bars in the nature of racks upon which clothes are supported, together with a canopy supported on the standard and surrounding the racks and means in the nature of an electric heater for directing heat through the canopy and against the clothes to effect in drying the clothes in an expeditious manner.

A further object is the provision in a clothes drier, of a revolvably supported standard having spirally arranged transverse openings throughout the length thereof to receive therethrough rods that provide clothes supporting racks, a ring member removably supported from the top of the standard, said ring slidably supporting thereon a canopy which entirely surrounds the rack, an electric heating element arranged at the bottom of the device for directing heat through the canopy and against the clothes for the quick drying of the clothes and means for protecting the heater from the dampened clothes.

A further object is the provision of a clothes drying apparatus in which all of the parts constituting the same are removably associated so that when the device is not required for use said parts may be folded upon themselves to provide a small compact package for storage and for shipment.

The invention also resides in many other novel features of construction, combination and operative association of parts, one satisfactory embodiment of which is disclosed by the accompanying drawing.

In the drawing:

Figure 1 is a side elevation of the improvement, a portion of the canopy being broken away.

Figure 2 is a top plan view thereof.

Figure 3 is a sectional elevation to illustrate the manner in which the standard is removably mounted on the base and the supporting ring for the canopy removably attached to the standard.

Figure 4 is an enlarged side elevation of the standard to illustrate its connection with the base and likewise illustrate the hub of the ring removably attached to the post, parts being broken away and parts in section.

Figure 5 is a detail elevation with parts in section to illustrate another manner in which the standard may be attached to the base.

The base 1 of the improvement comprises two bars arranged right angularly with respect to each other and which, at their contacting por-

tions, have their opposite faces notched for inter-engagement. The rightangular members comprising the base may have their outer ends provided on their under faces with lugs that afford feet 2 or the base may be supported on caster wheels 3, as disclosed by Figure 5 of the drawing.

In the preferred embodiment of the invention the interengaging reduced central portions of the members constituting the base are connected together by a tubular member 4 which has a lower threaded portion engaged by nuts 5, respectively, which contact with the inner upper and lower faces of the base. The tubular member 4 is thus removably connected to the base, so that the same may be supported therefrom and the sections constituting the base may be separated from each other. Surrounding the tube and resting on the base, there is a disc 6 that has a central bulged portion 7 to receive the upper nut 5 therein. The disc 6 has on its outer face an annular groove affording a raceway for anti-friction balls 8. These balls are received in an annular groove provided on the under face of a disc 9, the said disc having a sleeve extension 10 that receives therein the lower and cross sectionally squared portion 11 of a standard 12.

The sleeve 10 is of a square or rectangular cross sectional formation and a removable element, such as a screw 11, passes through the sleeve and enters the standard for holding the lower end of the standard in the sleeve. On the periphery of the disc or ball raceway 6 there are fixed spaced upstanding spring fingers 13 whose upper ends are bent to provide inwardly extending hooked portions 14, and the said hooks are adapted to be arranged over the upper disc or raceway 9 for holding the discs 9 and 6 properly associated and likewise for permitting of the removal of these elements without disturbing the balls in the lower raceways 6. The standard for the major portion of the length thereof, is round in cross section, and this round portion is provided with series of spirally arranged transverse openings 15 and through certain of these openings there are passed rods 16. The rods provide the supports for the clothes to be dried.

On the upper end of the standard 12 there is removably received a hub member 17 from which radiate arms 18. The outer end of the hub is closed, and the arms 18 are of an equal length and have their outer ends connected to a ring 19. On the ring there are eye members 20 which are attached to the upper edge of a curtain or canopy 21 which surrounds the standard and the clothes supporting rods 16.

Supported on the base 1 and surrounding the standard and the bearing therefor, there is the cylindrical body 21' of an electric heater. The coil of the heater has the usual conductor wire 5 which is plugged to the house source of electricity, and the heater 21 has on its top a reticulated disc plate 22 which is designed to protect the heating coil from moisture or from water dripping from the clothes supported upon the rods 16.

10 The confronting ends of the curtain or canopy 21 may be spread away from each other a distance equaling the distance between two of the spokes 18 and as the standard is revolvably supported articles of clothes may be arranged 15 upon each of the rods 16. Heat from the heater 21' will be directed upwardly between the clothes suspended on the rods 16 and through the canopy 21 so that the clothes will be dried in an expeditious manner.

20 In Figure 5 the standard 23 has its lower and squared end received in a socket 24 that may project from the base or may form a reinforcing sleeve for the said end of the standard. The standard is removably secured on the base through 25 the medium of a bolt or screw 25 that passes through the reduced interengaging central portions of the sections constituting the base.

The simplicity of the construction and the advantages thereof will, it is thought, be understood and appreciated by those skilled in the art to which the invention relates. The device is of a simple nature, will occupy only a small space in a laundry room and all of the parts constituting the improvement are separable so that the same may be folded against each other to provide 35 a small package for storage or for shipment. When the standard is removed from the base the balls are retained in the lower raceway 6 as long as the base is in horizontal position. Obviously I do not wish to be restricted to the specific structure herein shown and described and, therefore, hold myself entitled to make such changes therefrom as fairly fall within the scope of what I claim.

45 Having described the invention, I claim:

1. A clothes drier comprising a base, constituting rightangular members which centrally con-

tact with each other, and have their opposite faces at their said contacting portions notched for interengagement, a tubular member passing centrally through the base, inner and outer nuts 80 screwed on the tubular member, a disc affording a ball raceway positioned on the base and having a bulged portion to surround the outer nut, a second disc also providing a ball raceway arranged over the first named disc, spring fingers 85 on the first named disc having hooked ends to overlie the second named disc, a sleeve extending from the outer disc, a standard received in the sleeve and secured thereto, and said standard having a bore in which the tubular member is received, said standard having spaced spirally 90 arranged openings therethrough for the reception of removable rods that afford clothes hangers, a canopy supported from the standard and surrounding the rods, and an electric heater supported on the base for directing heat through the 95 canopy and between the rods.

2. A clothes drier comprising a base, a tubular member rising centrally therefrom, a disk forming a ball raceway supported on the base about the tubular member, a second disk of similar contour arranged above the first mentioned disk, 100 spring fingers rising from the first mentioned disk and having hooked ends to overlie the second mentioned disk, a standard rotatably mounted on the tubular member and connected with the second mentioned disk, rods carried by the standard 105 and providing clothes supports, a curtain suspended from the standard and surrounding said rods, and an electric heater supported by the base in spaced concentric relation about the standard. 110

3. A clothes drier comprising a base, a tubular member rising centrally therefrom, a sleeve rotatably mounted on the base in spaced concentric relation to said tubular member, a standard having a bore receiving the tubular member and 115 connected with the sleeve for rotation therewith, clothes supporting rods carried by the standard, a canopy suspended from the standard and surrounding said rods, and an electric heater supported on the base in spaced concentric relation 120 about the standard.

CHARLES E. AZWELL.

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