Nov. 9, 1937. J. A. BILLINGSLEY 2,098,853

CLOTHES DRIER

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Fig. 1.

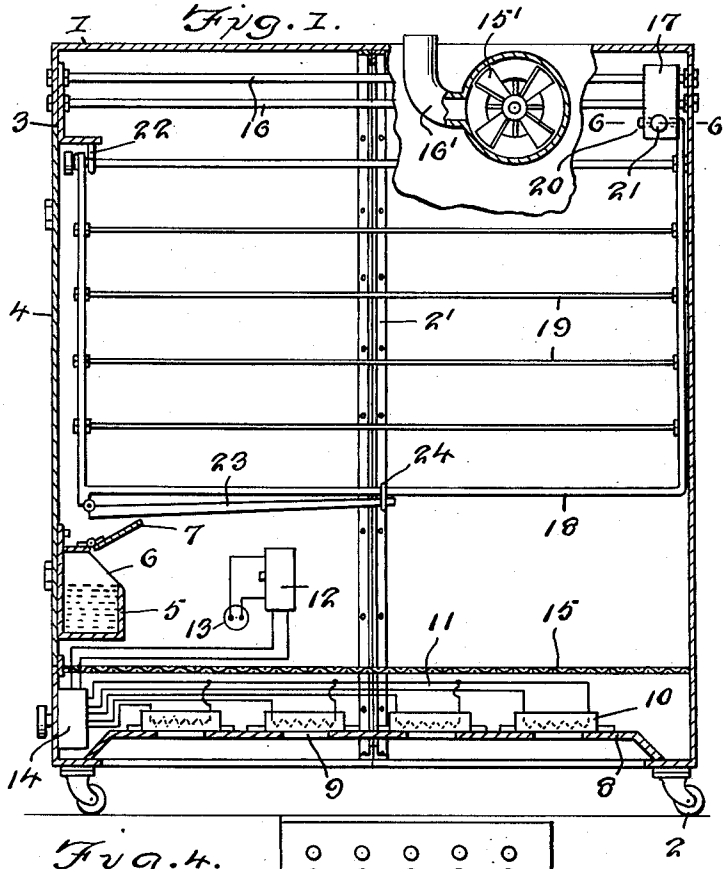


Fig. 3.

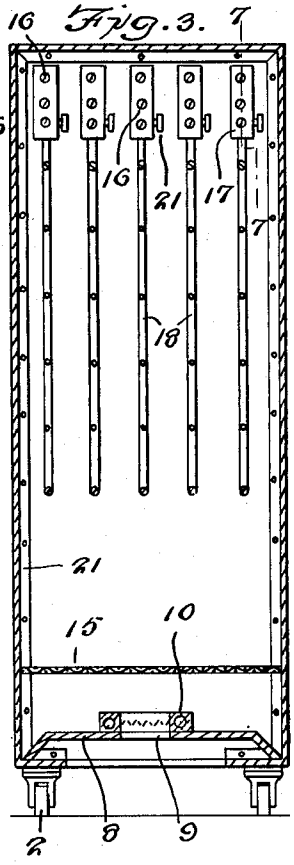


Fig. 4.

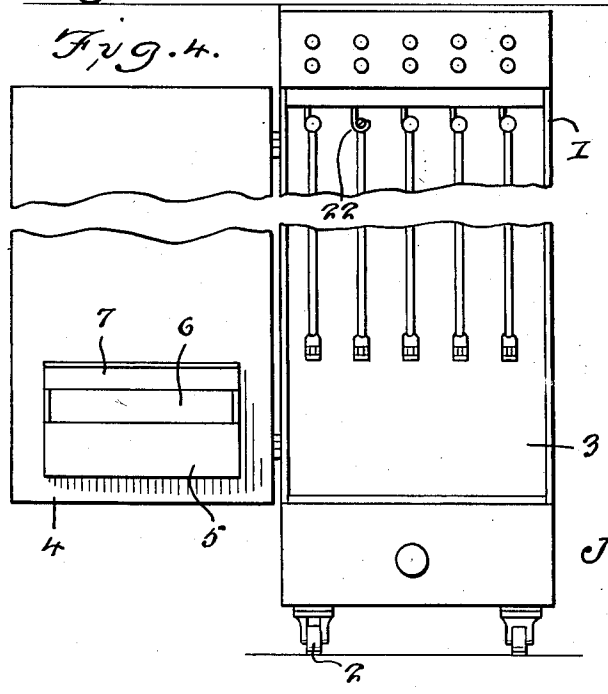
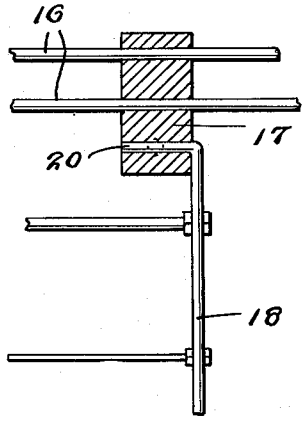


Fig. 7.



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Fig. 2.

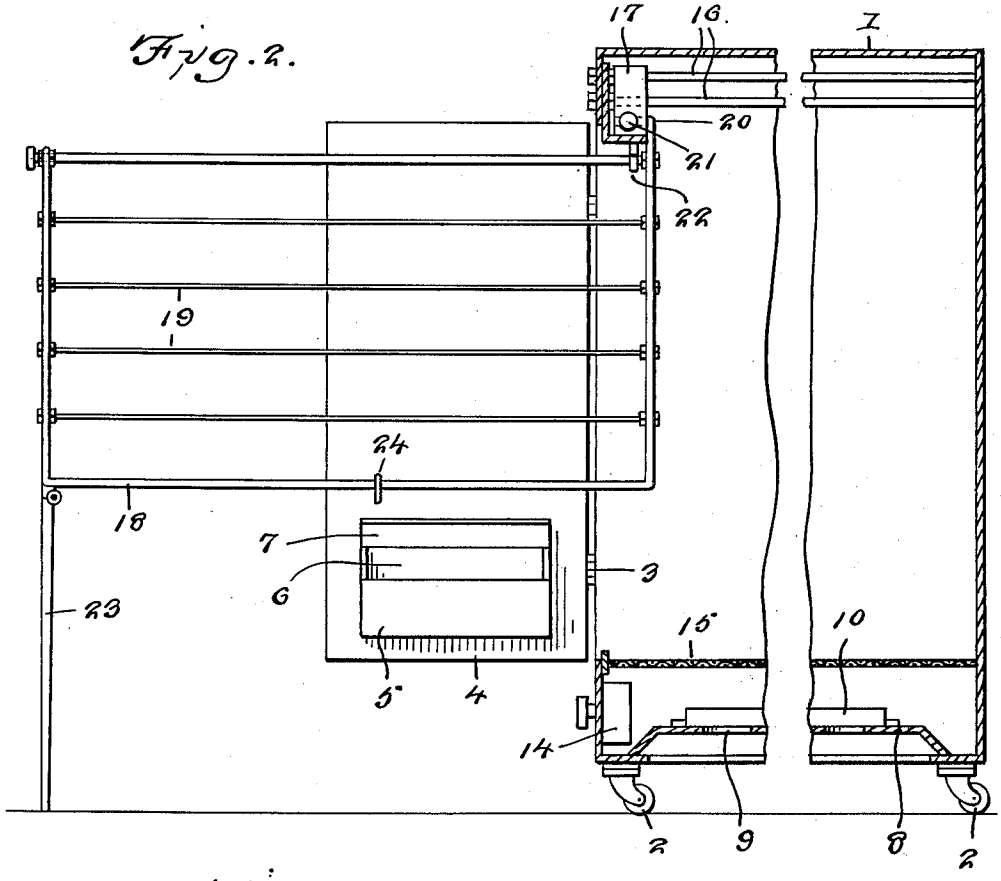


Fig. 5.

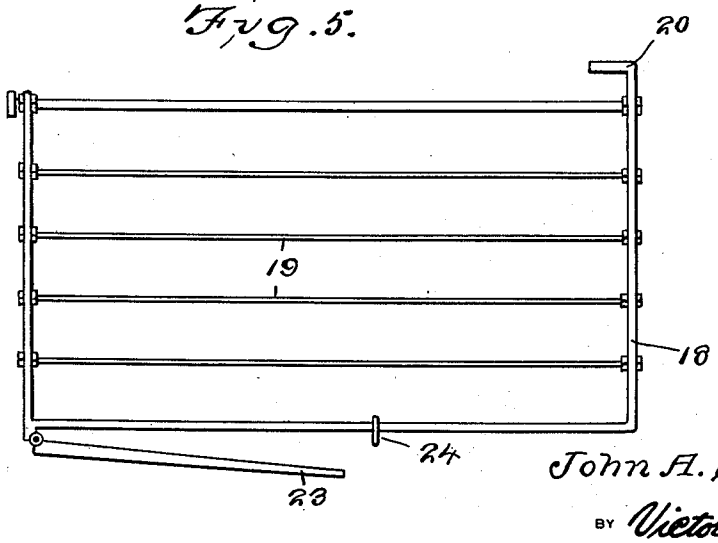
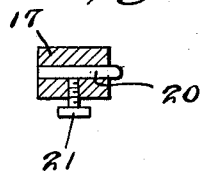


Fig. 6.



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UNITED STATES PATENT OFFICE

2,098,853

CLOTHES DRIER

John A. Billingsley, Dayton, Ohio

Application March 8, 1937, Serial No. 129,743

3 Claims. (Cl. 34—40)

This invention relates to a clothes drier and has for the primary object the provision of a portable and inexpensive device of this character which will efficiently and rapidly dry clothes and which is so constructed that a maximum number of pieces of clothing can be accommodated therein and easily removed when desired.

With these and other objects in view, this invention consists in certain novel features of construction, combination and arrangement of parts to be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference is to be had to the following description and accompanying drawings, in which

Figure 1 is a vertical sectional view illustrating a clothes dryer constructed in accordance with my invention.

Figure 2 is a view similar to Figure 1 showing the device open and adjusted to have clothing placed on or removed from racks forming a part of the invention.

Figure 3 is a transverse sectional view showing grouping of the racks within the cabinet of the device.

Figure 4 is a front elevation illustrating the device with the door in an open position.

Figure 5 is a side elevation illustrating one of the racks.

Figure 6 is a detail sectional view taken on the line 6—6 of Figure 1.

Figure 7 is a detail sectional view taken on the line 7—7 of Figure 3.

Referring in detail to the drawings, the numeral 1 indicates a cabinet mounted on rollers 2 whereby the device may be conveniently moved from one place to another. The cabinet is made in sections which are joined together as shown at 2'. The front wall of the cabinet has a doorway 3 closed by a door 4 hinged to the front wall and provided with a suitable latch for retaining the door in a closed position. Suitably mounted on the inner face of the door is a receptacle 5 having an opening 6 which may be opened and closed by a door 7. The receptacle 5 is adapted to contain a liquid for furnishing desired or necessary moisture in drying clothes preparatory for ironing. When moisture is not desired the door is closed. The bottom wall has a comparatively large opening over which is positioned a false bottom 8 having a series of openings 9. Overlying the openings 9 and mounted on the false bottom 8 is a plurality of electrical heating units 10 connected into an electric circuit 11. The electric circuit includes a control switch 12, a plug 13 and a thermostat 14. The plug 13 is employed for connecting the circuit 11 to a house circuit and the thermostat 14 automatically controls the temperature within the cabinet and may be readily adjusted so that the temperature can be varied. Positioned over the heating units 10 is a screen 15 to prevent articles placed in the cabinet from coming in direct contact with the units but which will permit an even distribution of heated air upwardly through the cabinet. Connected to the upper portion of the cabinet is a suction fan 15' including an exhaust pipe 16' for carrying off air from the cabinet and bringing about a complete circulation of heated air in the cabinet. While the cabinet has been described as being heated by electrical means, it may be heated by gas burners if desired.

Pairs of supporting rails 16 are mounted in the upper portion of the cabinet above the doorway and the rails of each pair are disposed in superimposed relation. Blocks 17 are slidable upon the pairs of rails and are movable between the front and rear walls of the cabinet. Racks 18 are detachably secured to the blocks 17 and are movable into and out of the cabinet by way of the doorway 3. Each rack is of substantially rectangular shape and is composed of a plurality of spaced members 19 on which may be suspended clothing or similar articles. The racks at their inner ends have formed thereon hook-shaped elements 20 received in openings of the blocks 17 and retained in said openings by set bolts 21. Engageable with the forward portion of the racks are hooks 22 carried by the cabinet to cooperate with the blocks 17 in slidably supporting the racks. Legs 23 are hinged to the racks and may be positioned to parallel said racks when not in use and retained in said positions by clips 24. However, when the racks are moved outwardly of the cabinet the legs are freed and permitted to come in engagement with the support to aid in supporting the racks and relieving the load upon the blocks 17.

A device of the character described is economical to manufacture and maintain in operation and will efficiently dry clothing placed on the racks and positioned in the cabinet and which clothing while drying may be subjected to moisture for the purpose of having the clothing in proper condition for ironing when removed from the drier. This device when not in use as a drier may be employed for storing wearing apparel or the like or for receiving soiled clothing prior to washing.

What is claimed is:

1. A drier comprising a portable cabinet having ventilation openings to permit the circulation of air therethrough and having a doorway, a door for opening and closing said doorway, heating means in said cabinet, a screen overlying the heating means, supporting rods mounted in the cabinet, blocks slidable on said rods, racks detachably secured to said blocks and movable to extend outwardly of the cabinet by way of the doorway, hooks carried by said cabinet and slidably receiving the racks.

2. A drier comprising a portable cabinet having ventilation openings to permit circulation of air therethrough and having a doorway, a door for opening and closing said doorway, heating means in said cabinet, a screen overlying the heating means, supporting rods mounted in the cabinet, blocks slidable on said rods, racks detachably secured to said blocks and movable to extend outwardly of the cabinet by way of the doorway, hooks carried by said cabinet and slidably receiving the racks, and legs hinged to said racks and capable of being extended angularly thereto to engage with a floor when the racks are extended outwardly of the cabinet.

3. A drier comprising a portable cabinet having ventilation openings to permit the circulation of air therethrough and having a doorway, a door for opening and closing said doorway, heating means in said cabinet, a screen overlying the heating means, supporting rods mounted in the cabinet, blocks slidable on said rods, racks detachably secured to said blocks and movable to extend outwardly of the cabinet by way of the doorway, hooks carried by said cabinet and slidably receiving the racks, legs hinged to said racks and capable of being extended angularly thereto to engage with a floor when the racks are extended outwardly of the cabinet, and means containing liquid located in the cabinet to be contacted by the air for moistening the latter.

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