Feb. 2, 1926. 1,571,440

G. C. SMITH

RACK

Filed Oct. 13, 1922 2 Sheets-Sheet 1

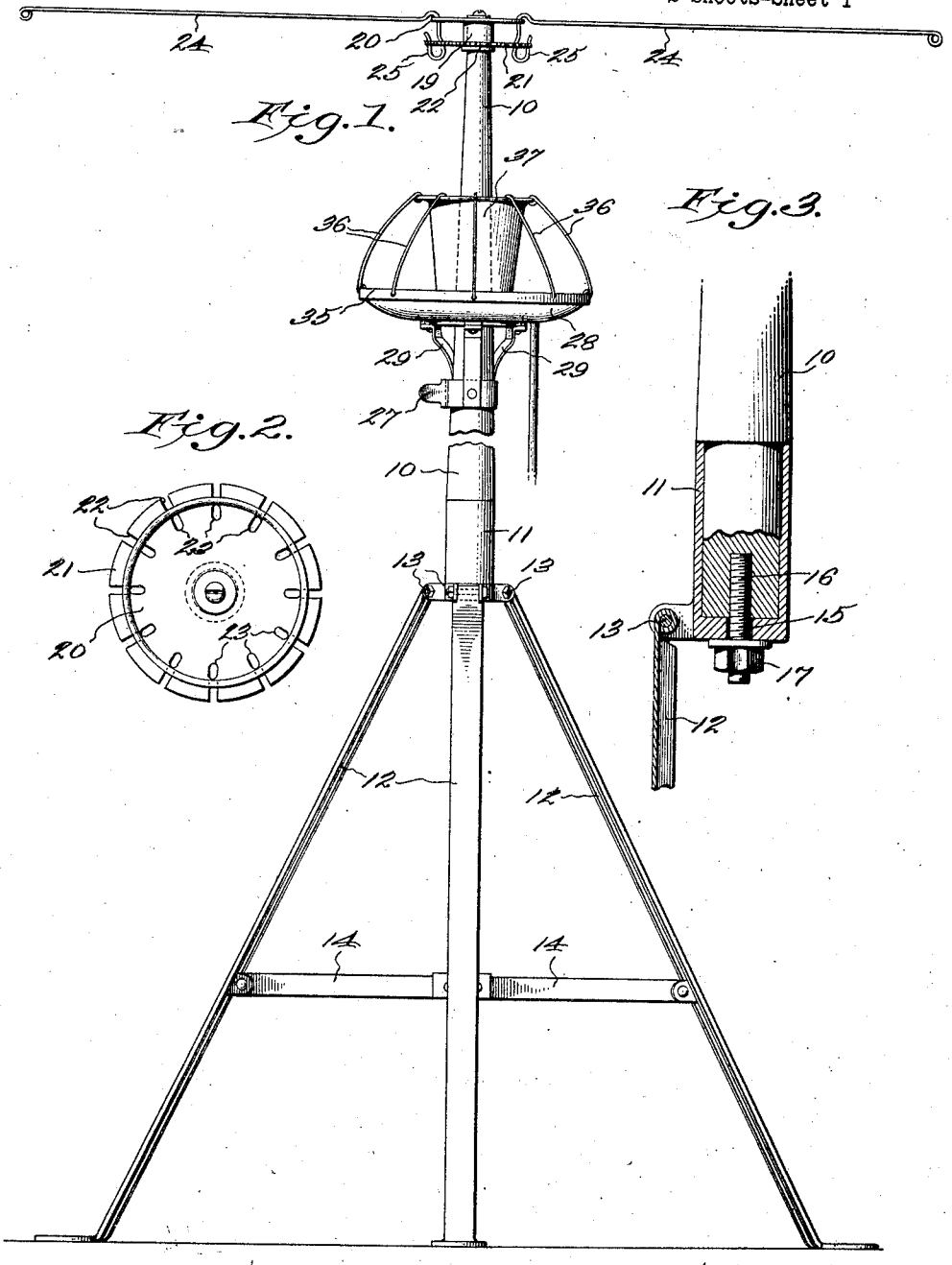


Fig. 1.

Fig. 2.

Fig. 3.

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Fig. 4.

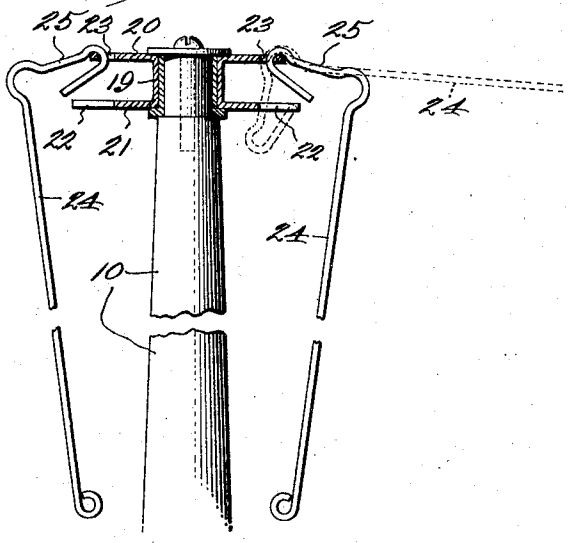


Fig. 5.

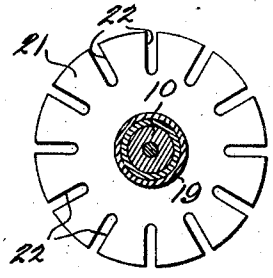


Fig. 6.

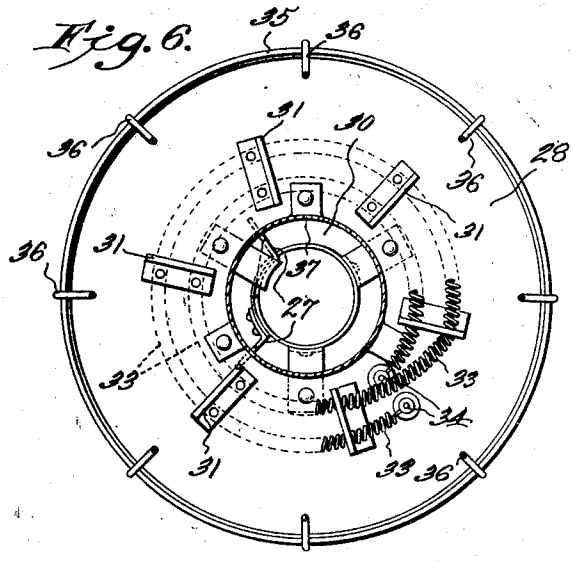
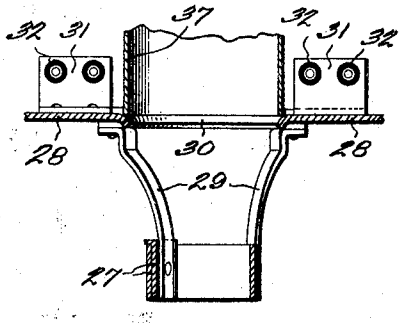


Fig. 7.



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Patented Feb. 2, 1926. 1,571,440

UNITED STATES PATENT OFFICE.

GROVER C. SMITH, OF OGDEN, UTAH, ASSIGNOR OF ONE-HALF TO JAMES ROSBOROUGH SMITH, OF OGDEN, UTAH.

RACK.

Application filed October 13, 1922. Serial No. 594,308.

To all whom it may concern:

Be it known that I, GROVER C. SMITH, a citizen of the United States, residing at Ogden, in the county of Weber and State of Utah, have invented new and useful Improvements in Racks, of which the following is a specification.

This invention relates to an improved clothes rack and drier embodying a standard upon which is mounted an electric heater disposed with relation to the clothes rack and possessing maximum efficiency for the purpose intended.

The nature and advantages of the invention will be better understood when the following detailed description is read in connection with the accompanying drawings, the invention residing in the construction, combination, and arrangement of parts as claimed.

In the drawings forming part of this application, like numerals of reference indicate similar parts in the several views, and wherein:—

Figure 1 is a side elevation of the drier constructed in accordance with one embodiment of the invention, and showing the clothes supporting arm in active position.

Figure 2 is a top plan view.

Figure 3 is an enlarged fragmentary view, partly in section of the body portion of said rack.

Figure 4 is a view, showing the manner in which the clothes supporting arms are suspended from the body of the rack normally.

Figure 5 is a plan view of the lower disk with the tube and post in cross section.

Figure 6 is an enlarged view, partly in section, of the electric heater.

Figure 7 is a central vertical section through a portion of the heater.

Referring to the drawings in detail, and particularly to Figure 1, 10 indicates a pole which supports the clothes rack hereinabove referred to, and which in turn is supported by the structure illustrated. This structure includes a socket 11 which receives one end of the pole 10, the socket being associated with a plurality of supporting legs 12 pivoted as at 13, so that the legs can be extended for use or folded when not in use. The legs are connected together by suitable braces 14. The bottom of the socket 11 is provided with a central opening 15 to receive the threaded element 16 projecting from the lower end of the pole 10, and which element has associated therewith a nut 17 which when tightened holds the pole in the socket. It is of course to be understood that the support for the pole, as well as the pole may vary in size without departing from the spirit of the invention.

Supported on the upper end of the pole is the clothes rack, which includes a body portion and a plurality of clothes supporting rods as shown. The body portion is of tubular formation and indicated at 19, and is of a size to snugly receive the upper end of the pole. Supported by the tubular body portion 19 are spaced disk-like members 20 and 21 respectively, the latter being of a greater diameter than the disk 20 and provided with a circumferential series of radially disposed slots 22 for a purpose to be presently described. The disk 20 is provided with a circumferential series of openings 23, and these openings are arranged above and in alinement with the slots 22. The clothes supporting rods are indicated at 24 and may be of any suitable length, one end of each rod terminates in a loop-like portion 25. This portion of each rod is passed through one of the openings 23 of the disk 20, and the rods are suspended from this disk normally in a manner illustrated in Figure 4. When use of the rods is desired, the latter are swung to a horizontal position, and the lower end of the loop-like portion 25 arranged in the slots 22 of the disk 21, in which manner, the rods are supported horizontally for use. The body portion of the rack can be easily removed from the pole 10, the pole separated from the socket 11, so that these parts can be compactly arranged, subsequent to the folding of the legs 12, thereby materially reducing the side of the drier in its entirety when not in use.

Supported by the post 10 is an electric heater clearly illustrated, and this heater is arranged immediately beneath the rack above described, so that the clothes supported by the rods 24 have the full and direct benefit of the heat radiated from the heater. In this manner, the clothes are dried in comparatively quick order. The heater embodies a resilient clamp 27 adapted to embrace the post 10 at an appropriate point in its length, it being readily understood that the heater in its entirety is susceptible of vertical adjustment on the post, so that it may

be arranged in the most advantageous position. The clamp is suspended from a pan 28 having a reflecting surface by means of suitable brackets 29, and which pan has an enlarged central opening 30 of a considerably greater diameter than the diameter of the post 10, thus providing an air space about the post 10. Supported upon the pan 28 are spaced brackets 31 having openings 32 through which are threaded heating coils 33 arranged in spaced concentric relation and connected with suitable terminals indicated at 34. Associated with the outer edge of the pan is an annulus 35 which is connected with the adjacent ends of guard wires 36 which are curved inwardly and have their upper corresponding extremities suitably secured to the upper end of a sleeve 37. The sleeve may be constructed from any suitable material and is spaced from the post 10 which surrounds it to provide an air space as will be readily understood. This heater may also be easily attached to or removed from the post as the occasion may require.

What I claim is:—

1. In combination, a holder for clothes to be dried, a heater for drying said clothes, and a single means for supporting said holder and said heater in spaced relation.

2. In combination, a holder for clothes to be dried, a support therefor, and a heater mounted on said support in spaced relation to said holder.

3. In combination, a holder for clothes to be dried, a support therefor, and a heater adjustably mounted on said support.

4. In combination, a clothes rack, a post therefor, and an electric heater adjustably mounted on said post.

5. In combination, means for holding clothes to be dried, an electric heater, a reflecting pan for directing heat to said clothes, and a single support for said means and said pan.

6. In combination, a post, a clothes rack on said post, an annular pan adjustably supported on said post to provide an air space between said pan and said post and an electric heater element supported within said pan.

7. In a clothes rack, a post, a clothes rack supported by said post, an annular reflecting pan having its inner diameter considerably in excess of the diameter of the post, an electric heating element within said pan and surrounding said post, and means for adjustably supporting said pan on said post.

8. The combination with a clothes rack post of a heating element comprising an annular heat-reflecting pan having its inner diameter considerably in excess of the diameter of the post to provide an air space therebetween, a clamp, means for supporting said reflecting pan from said clamp, a coiled electric heating element mounted on said pan and surrounding said post and an annular shield between said heating element and said post.

9. In combination, a tubular post, a folding support for said post, a collapsible clothes rack supported at the top of said post, a clamp surrounding said post and adjustable thereon, an electric heating element, and means supported from said clamp for positioning said heating element and for reflecting the heat therefrom upwardly and outwardly toward the clothes suspended on said rack.

10. In a clothes drier, a post, means for supporting said post, a clothes rack mounted on the post and including a plurality of rods normally suspended from said rack, said rods being designed to cooperate with the rack whereby said rods are supported horizontally in a position for use, and an electric heater supported by said post immediately beneath said rack for the purpose specified.

11. In a clothes drier, a post, means for supporting said post, a clothes rack mounted on the post, an electric heater associated with the post and arranged immediately beneath said rack, said heater including a plate having an enlarged central opening to receive said post, a clamp suspended from the plate for embracing said post, a sleeve rising from the plate and surrounding said post, heating coils supported by the plate, and guard wires terminally connected with the plate for the upper end of said sleeve.

12. In a clothes drier, a post, a supporting structure therefor including a socket adapted to receive one end of the post, a plurality of supporting legs pivoted on said socket, means for holding said legs extended for use, a clothes rack including a body portion having a central opening receiving the upper end of the post, and a plurality of clothes supporting rods associated with said bracket and adapted to be arranged in a horizontal position for use, and normally suspended therefrom when not in use, and an electric heater adjustably supported on said post and adapted to be arranged immediately beneath said rack as and for the purpose specified.

In testimony whereof I affix my signature.

GROVER C. SMITH.