

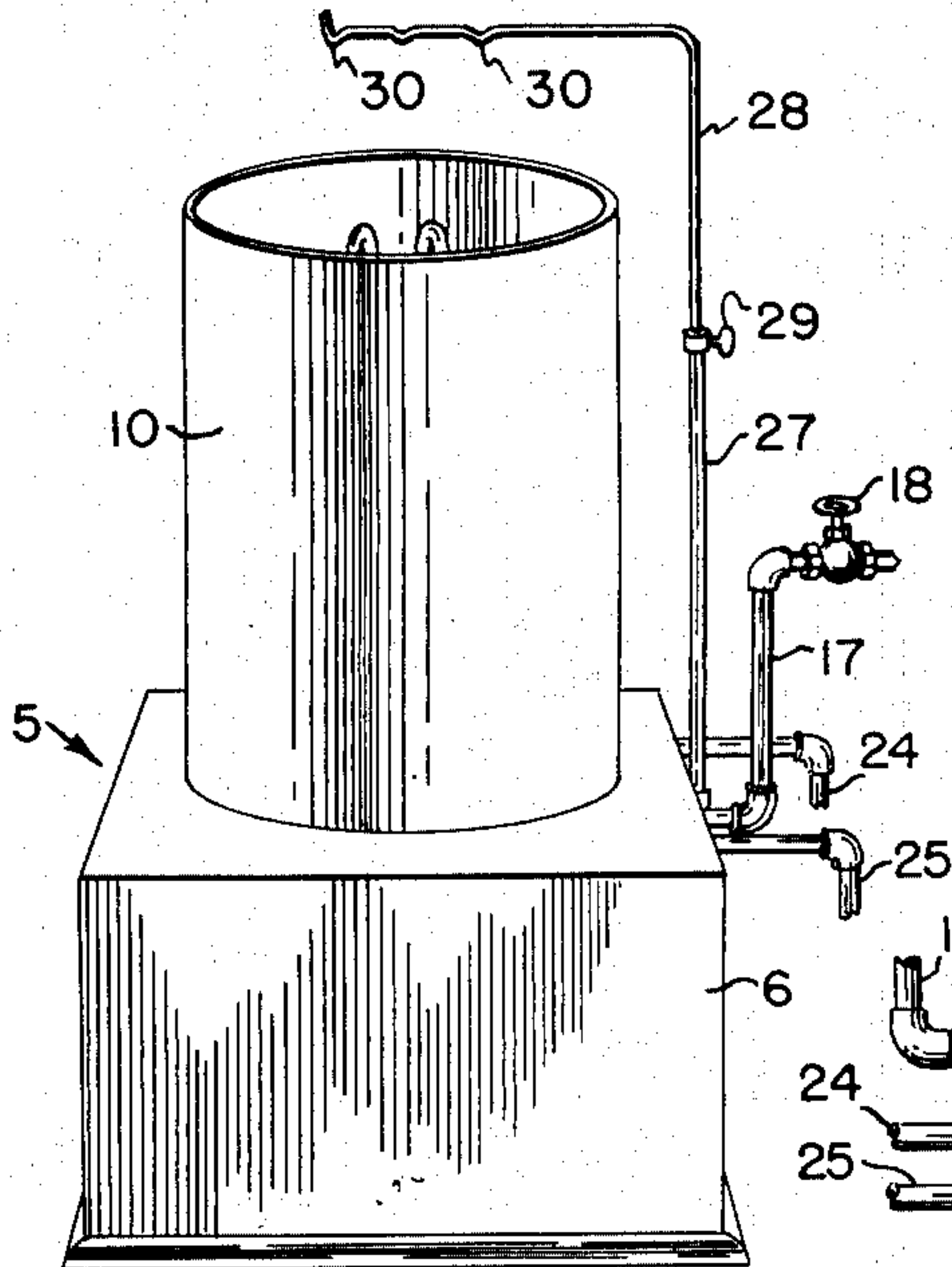
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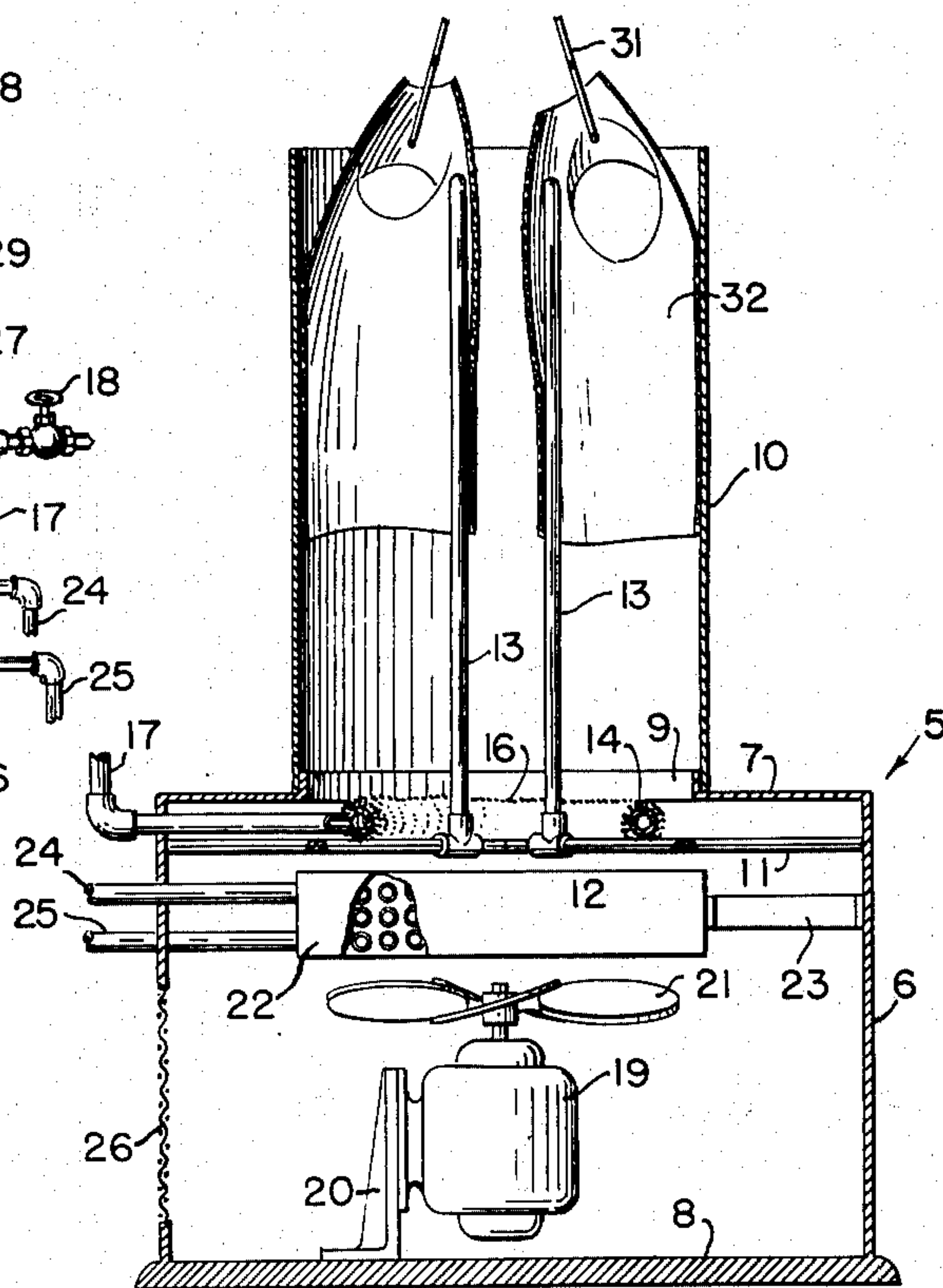
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GARMENT DRIER

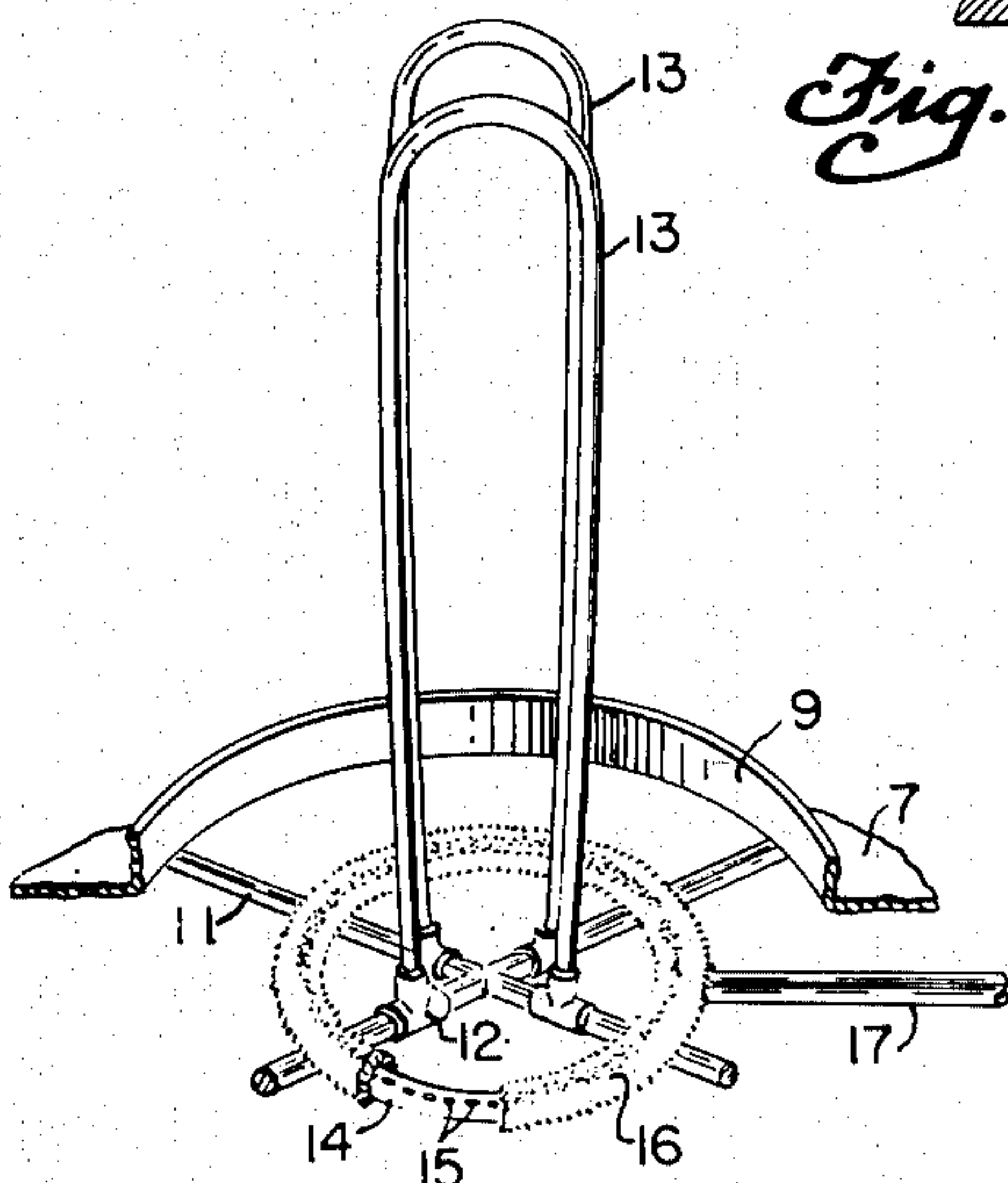
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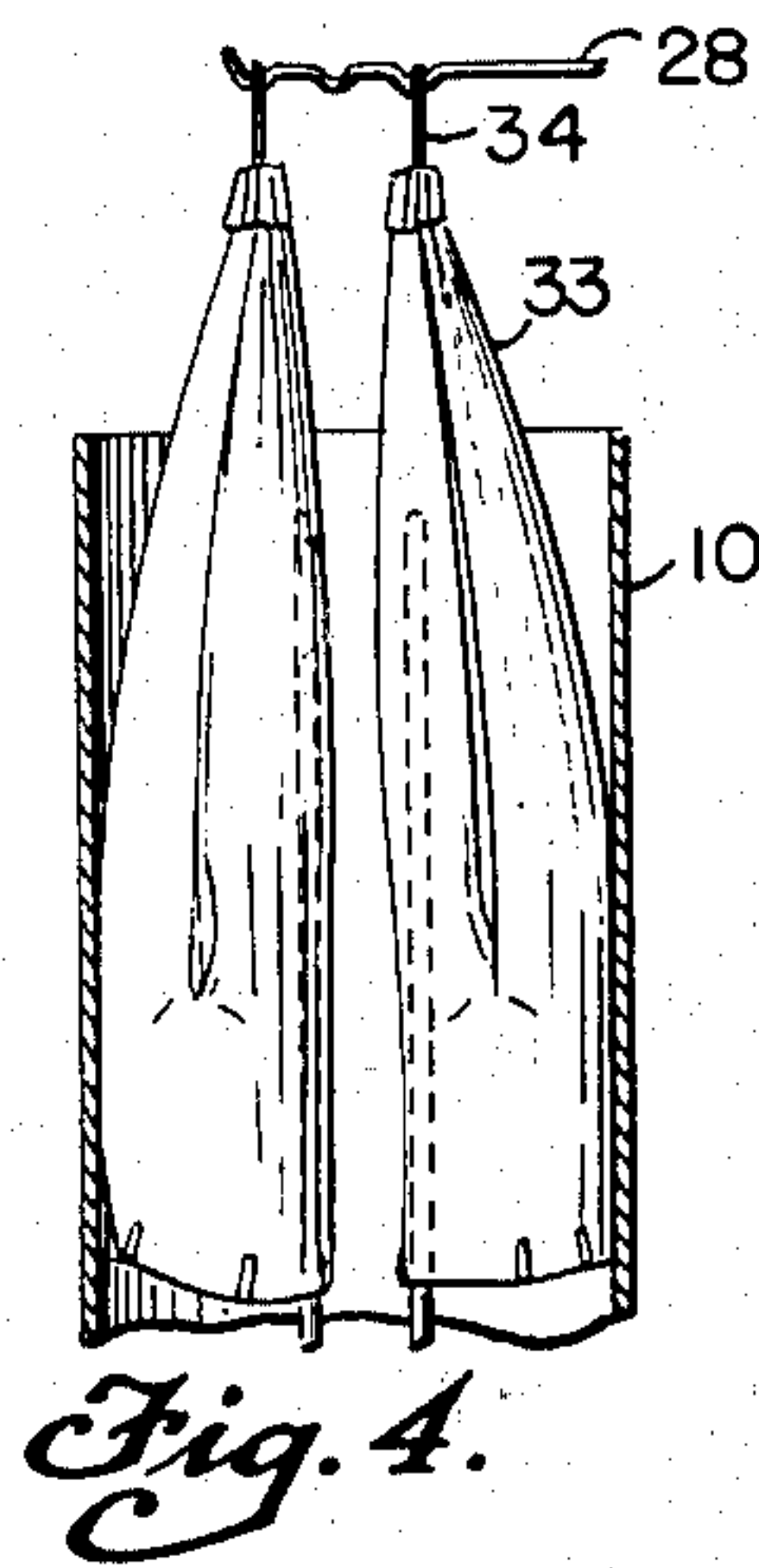
*Fig. 1*



*Fig. 2.*



*Fig. 3.*



*Fig. 4.*

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## UNITED STATES PATENT OFFICE

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## GARMENT DRIER

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2 Claims. (Cl. 34-104)

1

This invention relates to dry cleaning equipment and has reference to improvements in garment driers.

An object of the invention is to provide a garment drier construction in which the wet or damp garments may be quickly positioned for drying, and quickly removed therefrom.

Another object of the invention is to provide a garment drier which will dry more garments as compared with conventional driers of the same size.

Another object of the invention is to provide a drying arrangement in a blower type garment drier whereby excess air by-passes the garment when only one garment is being dried, and thereby preventing the garment from being blown out of the device.

A further object of the invention is to provide a garment drier which does not require the use of clamps on the garments being dried for holding the same in drying position.

A still further object of the invention is to provide a drier of the described class which will not stretch the garments, but will operate without getting the garments out of shape.

The invention will be more readily understood by reference to the accompanying drawings and the following description.

Figure 1 is a perspective view of a garment drier embodying the features of the invention.

Figure 2 is an enlarged vertical section of the new drier and showing the position of garments during the drying operation.

Figure 3 is a broken perspective view of the garment guides and the steam ring.

Figure 4 is a vertical sectional view of the drier stack and showing two pairs of trousers being dried therein.

In Figure 1 the numeral 5 designates a housing having four sides 6, an upper surface 7 and a bottom 8. There is an annular opening 9 in the center of the upper housing surface 7 which is enclosed by an upwardly directed cylindrical stack 10. The opening 9 is in the form of an upwardly directed flange which slidably receives the lower end of the stack 10, and whereby the latter may be located relative to said opening and at the same time be easily removed when desired. Within the upper end of the housing 5 and secured to the walls 6 there is a cross brace 11 having T fittings relatively near its center for securing a pair of upwardly directed substantially parallel looped guides 13, as shown in detail in Figure 3. In assembly, it will be noted that the guides 13 are spaced from the inner wall of the

2

cylindrical stack 10. There is a steam ring 14 supported on the cross brace 11 and around the upwardly projecting guides 13. The upper surface of the ring 14 is provided with orifices 15 and the entire ring is covered with fabric 16, such as toweling. A supply pipe 17 including a manually operated valve 18 is connected with the steam ring 14. As will become apparent in the description of the operation, the steam ring 14 is employed only when it is desired to raise the nap or soften wrinkles on the garments being dried.

Within the bottom portion of the housing 5 there is a motor 19 mounted on a bracket 20 and having an upwardly directed fan 21 connected with said motor for moving air upwardly through a heat exchanger 22 positioned thereabove, and upwardly and outwardly through the stack 10. As shown in Figure 2, the heat exchanger 22 is secured to the walls 6 by means of brackets 23. The heat exchanger 22 is connected with a steam supply pipe 24 and a return pipe 25 which pass through the wall of the housing 5. An air inlet in the form of a screen grill 26 is provided in one of the walls 6.

There is a vertically directed tubular standard 27 secured to one of the sides of the housing 5 and receives an angular rod bracket 28 in its upper end. A set screw 29 provides vertical adjustment of the bracket 28, the upper horizontal end of which is arranged to be positioned over the upper end of the drying stack 10. The horizontal portion of the bracket 28 is provided with a multiple of downwardly directed bends 30 for holding and locating garment hangers 31 upon which the garments 32 to be dried are suspended.

The operation of the drier is best illustrated in Figure 2. The heat exchanger 22 is heated by circulating steam through the steam supply pipe 24 and return pipe 25. The garments 32 suspended on the garment hangers 31 are individually positioned over the guides 13, and the air from the fan 21 inflates and blows the garments against the inner wall of the drier stack 10. The air, which passes through the heat exchanger 22, effectively dries the garments 32. It will be noted that the garments 32 may be quickly positioned in place, and that there are no clips or other weights to cause the garments to sag or stretch. When dry, the garments may be quickly removed by merely lifting the garment hangers 31. If only one garment is being dried, the same is positioned over one guide 13 and the side of the garment opposite said guide is blown against the opposing wall of the drier stack 10, and the



3

excess air passes therearound without blowing the garments out of the top of the stack.

As shown in Figure 4, trousers 33 are suspended by their cuffs by means of trouser hangers 34. Each pair of trousers is positioned over one of the guides 13, and the side of the garment opposite the guide is blown against the inner wall of the stack 10, with the same effect as described in the foregoing.

The described form of the invention is not restrictive, but may be made in many ways within the scope of the appended claims.

What is claimed is:

1. In a garment drier, a drying stack having a relatively large opening in the upper end thereof and adapted to receive the garments to be dried therethrough, at least one vertically projecting garment guide positioned within said stack, means blowing hot air upwardly through said stack, said guide being spaced relative to the inner wall of said stack at a distance whereby a garment placed over said guide will contact the

4

latter and said inner wall when said garment is inflated by said blowing means, a garment supporting bracket positioned above said guide and adapted to removably suspend the garments to be dried within said stack.

2. In a garment drier as defined in claim 1, the construction wherein said guide is comprised of substantially parallel elongated members arcuately joined at their upper ends.

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