

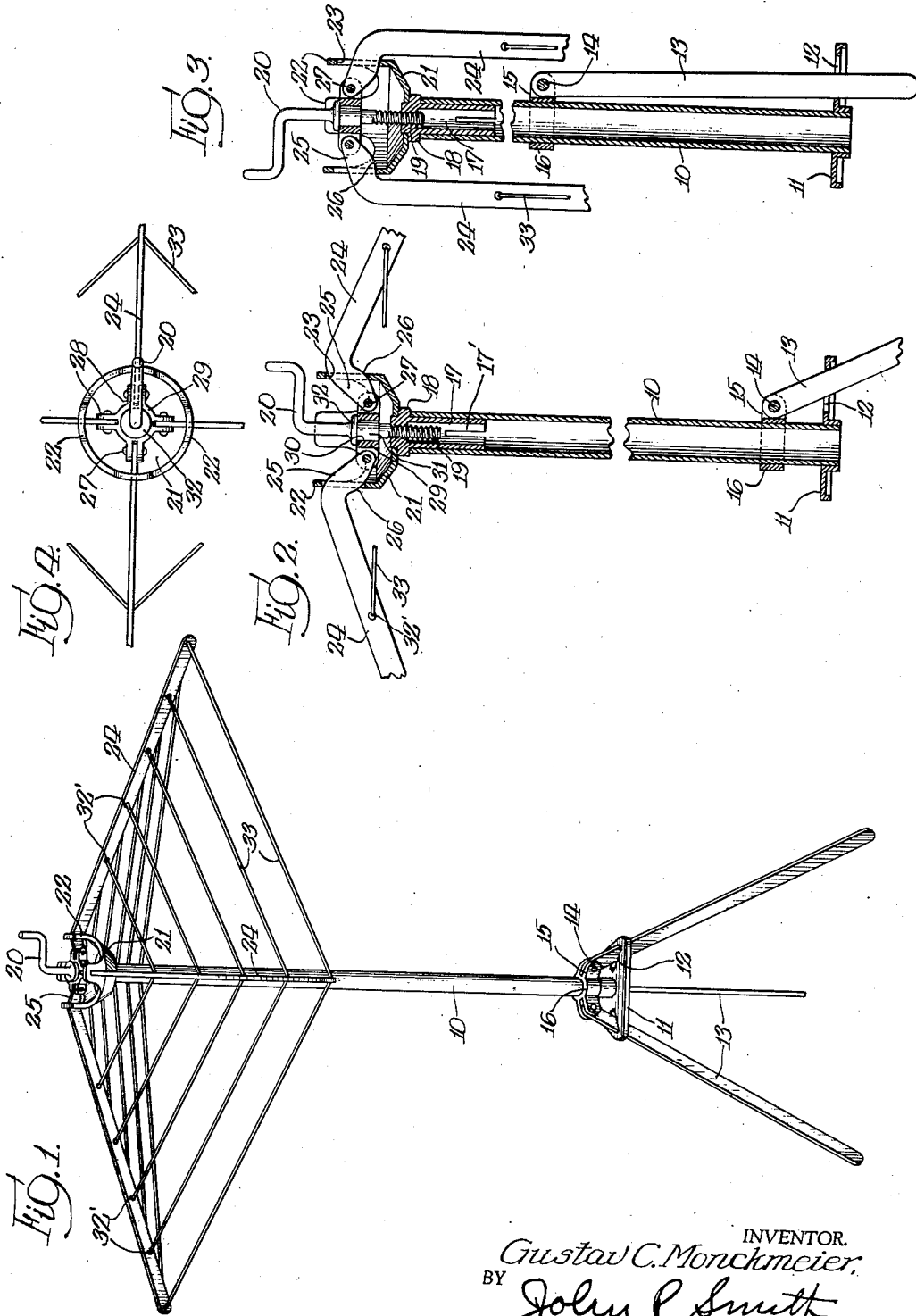
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CLOTHES DRIER

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CLOTHES DRIER

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5 Claims. (Cl. 211-171)

The present invention relates generally to clothes driers, but more particularly to a novel and improved collapsible type.

One of the objects of the present invention is to provide a simple, compact and collapsible type clothes drier having a rotatable reel which may quickly and easily be set up or folded in collapsed form so as to occupy a minimum amount of space in storage.

Another object of the invention is to provide a novel and improved collapsible type drier in which the diverging arms thereof are manipulated to extended position by a quick acting screw crank so that a minimum amount of time and energy is expended in the operation of either setting up or collapsing the same.

A further object of the invention is to provide a new and improved construction of collapsible type clothes drier in which the standard thereof is supported by three pivotally connected and longitudinally slidable supporting legs which may be extended outwardly from the standard for supporting the drier proper in set up position or may be collapsed towards and moved longitudinally of the same.

These and other objects are accomplished by providing a construction and an arrangement of the various parts in the manner hereinafter described and particularly pointed out in the appended claims.

Referring to the drawing:

Fig. 1 is a perspective view of my novel and improved drier illustrating the manner in which it is set up and prepared for supporting clothes thereon;

Fig. 2 is an enlarged fragmentary vertical cross sectional view illustrating the construction of the quick acting screw crank for actuating the diverging arms to extended position;

Fig. 3 is a similarly vertical cross sectional view illustrating the manner in which the clothes drier is collapsed; and

Fig. 4 is a fragmentary top plan view of the drier in set up position.

In illustrating one embodiment of my invention, I have shown the same as comprising a vertically extending standard in the form of a tubular member indicated by the reference character 10. Rigidly attached to the lower end of the standard 10 is a triangular plate 11. Located in equally spaced apart distances in the plate 11 and about the axis of the standard 10 are radially disposed slots 12 in which are reciprocally mounted diverging supporting legs 13. The upper ends of the legs 13 are pivotally secured as shown

at 14 to outwardly projecting ears 15 of a slidable collar 16 which in turn is adapted to embrace the standard 10 in the manner clearly illustrated in Figs. 1, 2 and 3 of the drawing. Frictionally and rotatably mounted in the upper end of the standard or pipe 10 is a sleeve 17. The sleeve 17 is provided with opposite longitudinal slots 17' at the lower end thereof so that the adjacent parts may be spread to vary the frictional engagement of the sleeve with the standard. The upper end of the sleeve is provided with an enlarged flange-like portion 18. The flange-like portion 18 of the sleeve 17 has an internally threaded bore in the axial center thereof. Mounted in threaded engagement with the threaded bore 19 is a threaded crank generally indicated by the reference character 20. The threaded bore and the threaded crank in this instance are of the quick acting type in which the pitch of the thread are at a steep incline so as to effect a rapid extension or collapse of the diverging arms upon the manipulation of the crank in the manner hereinafter described. Rigidly secured to the flange-like portion 18 of the sleeve 17 is a cup-like bracket 21 which is provided with four oppositely disposed and equally spaced apart vertical extensions 22. Located in the center of each of these vertical extensions 22 are vertically extending slots 23 through which extend radial or diverging arms 24. The inner ends of each of the arms 24 are inwardly bent or angularly disposed with respect to the main body portion as shown at 25 with the lower portion curved as shown at 26 to have a cam-like surface engageable with the lower edge of the slot 23 in each of the vertical extending portions 22 as clearly shown in Figs. 2 and 3 of the drawing. Each of the inner ends of the diverging arms 24 are pivotally attached as shown at 27 between oppositely projecting ears 28 of a collar 29. The collar 29 is provided with an axially located bore 30 in which is journaled an enlarged bearing portion 31 of the crank 20. Located adjacent the bearing portion 31 of the crank 20 is an enlarged flange 32 which is adapted to bear against the upper surface of the collar 29 when the crank 20 is actuated to depress the inner ends of the arms 24 in the operation of setting up the drier. Each of the arms 24 are provided with equally spaced apart apertures 32' throughout the entire length through which is inserted a thread or cord 33 for supporting thereon clothes to be dried when the drier is in its extended set up position or the position shown in Fig. 1 of the drawing.

Summarizing the advantages and function of operation of my improved clothes drier, it will be readily seen that by having the diverging arms as well as the supporting legs collapsible and longitudinally movable with respect to the standard, the clothes drier proper may be folded so that the arms 24 collapse to a position in which they assume parallelism with the main standard 10 and the supporting legs moved longitudinally and into parallelism with the standard 10 to the position shown in Fig. 3 of the drawing. It will also be seen that since the sleeve 17 supporting the diverging arms is frictionally engaged in the upper end of the tubular standard 10 the arms may be revolved about the standard so that easy access to the clothes hanging thereon may be had. It will also be noted that by providing a quick acting threaded crank the arms may be actuated to extended or folding position with a minimum amount of time and effort.

While in the above specification I have described one embodiment which my invention may assume in practice, it will of course be understood that the same is capable of modification and that modification may be employed without departing from the spirit and scope of the invention as expressed in the following claims.

What I claim is my invention and desire to secure by Letters Patent:

1. A clothes drier comprising a vertical standard, a sleeve journaled in the upper end of said standard having a threaded bore, a crank mounted in threaded engagement with said bore, a collar journaled on said crank, and a plurality of radially extending arms pivoted directly to said collar and adapted to be actuated laterally with respect to said standard by the manipulation of said crank.

2. A collapsible clothes drier comprising a vertically disposed standard, a sleeve journaled to the upper end of said standard having an axially located threaded bore, a threaded crank mounted in threaded engagement with said bore, a bracket secured to the upper end of said sleeve, there being vertical slots in said bracket, a collar journaled on said crank, and a plurality

of radially disposed arms pivoted to said collar and adapted to engage said bracket for actuating said arms with respect to said standard.

3. A clothes drier comprising a vertical standard, a sleeve journaled in the upper end of said standard having an axially threaded bore therein, a bracket secured to said sleeve, a crank mounted in threaded engagement with said sleeve, a collar journaled on said crank, a flange formed integrally with said crank and engageable with said collar, and a plurality of radially disposed arms pivoted to said collar and slidably engaging said bracket, said arms adapted to be actuated with respect to said standard upon the manipulation of said crank.

4. A clothes drier comprising a vertically extending standard, a sleeve mounted on said standard and having a vertically threaded bore, a threaded screw mounted in threaded engagement with said bore, a crank formed integrally with said screw and extending above said standard, a collar journaled on said crank, a bracket secured to said sleeve having vertically extending slotted ears on the opposite sides thereof, and radially projecting arms pivotally secured to said collar and extending through said slotted ears, said arms adapted to be actuated with respect to said standard upon the manipulation of said crank.

5. A clothes drier comprising a tubular standard, a sleeve journaled in the upper end of said standard having a threaded bore in the center thereof, a screw mounted in threaded engagement with said bore, a crank handle formed on the upper end of said screw and projecting above said standard, a bracket secured to said sleeve having oppositely disposed and vertically extending portions, there being vertical slots in said vertically extending portions, a collar journaled on said crank, and radially disposed arms extending through said slots and pivoted to said collar whereby upon the manipulation of said crank, said arms are extended to diverging position or collapsed position parallel to said standard.

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