March 2, 1954 C. G. PIERIE 2,670,855

COLLAPSIBLE CLOTHES HANGER

Filed July 16, 1952

4 Sheets-Sheet 1

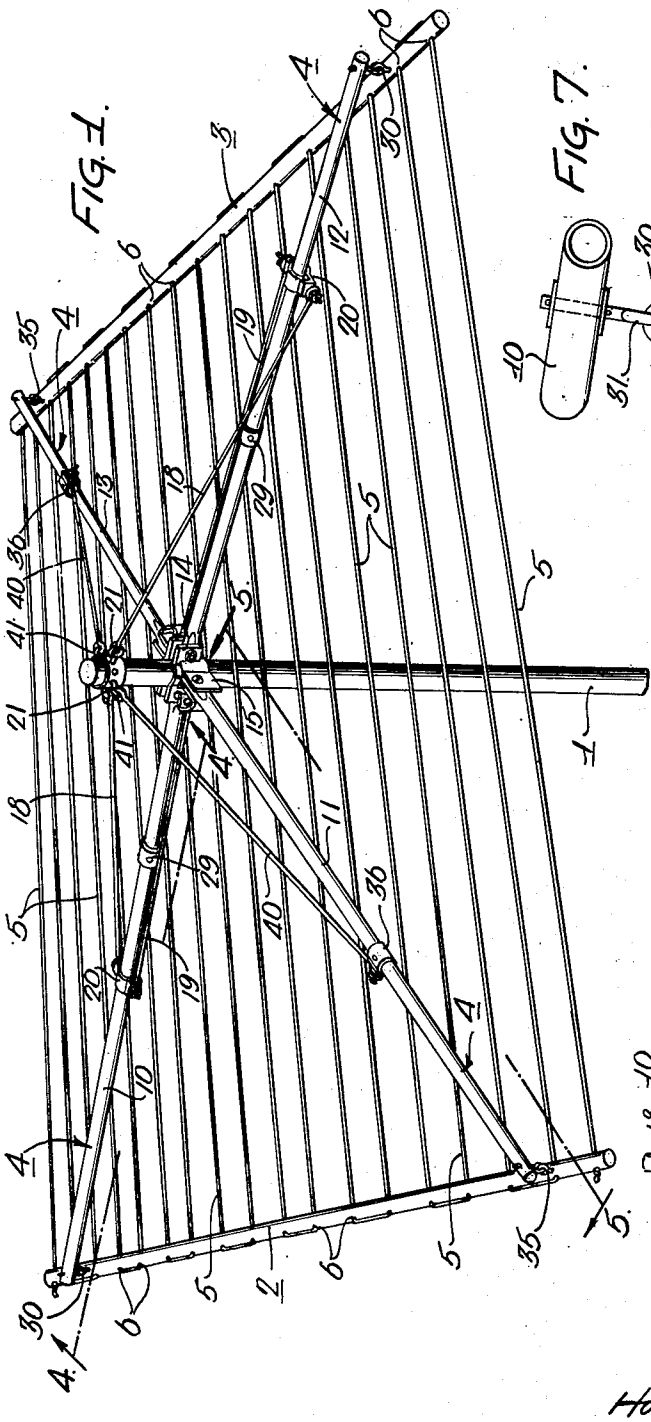


FIG. 1.



FIG. 7.



FIG. 5.

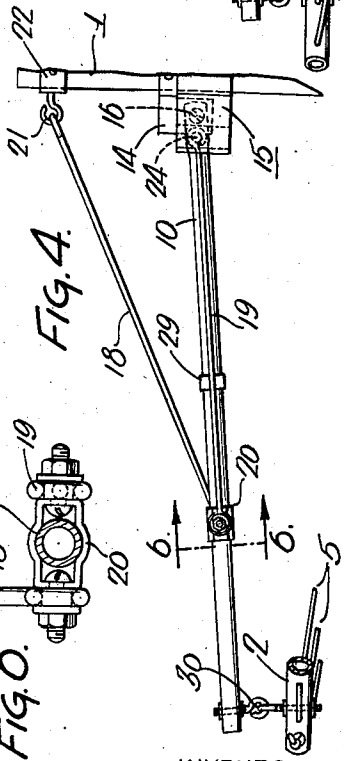


FIG. 4.



FIG. 6.

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FIG. 12.

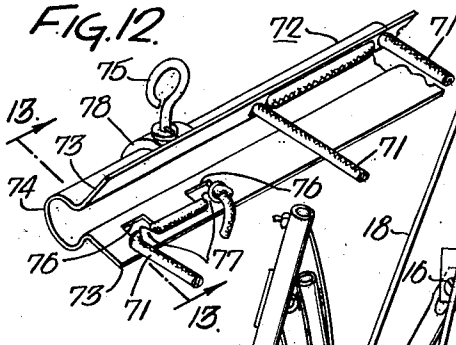



FIG. 13.

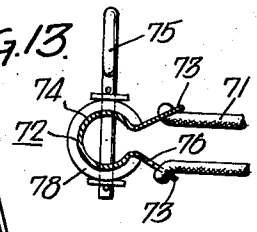
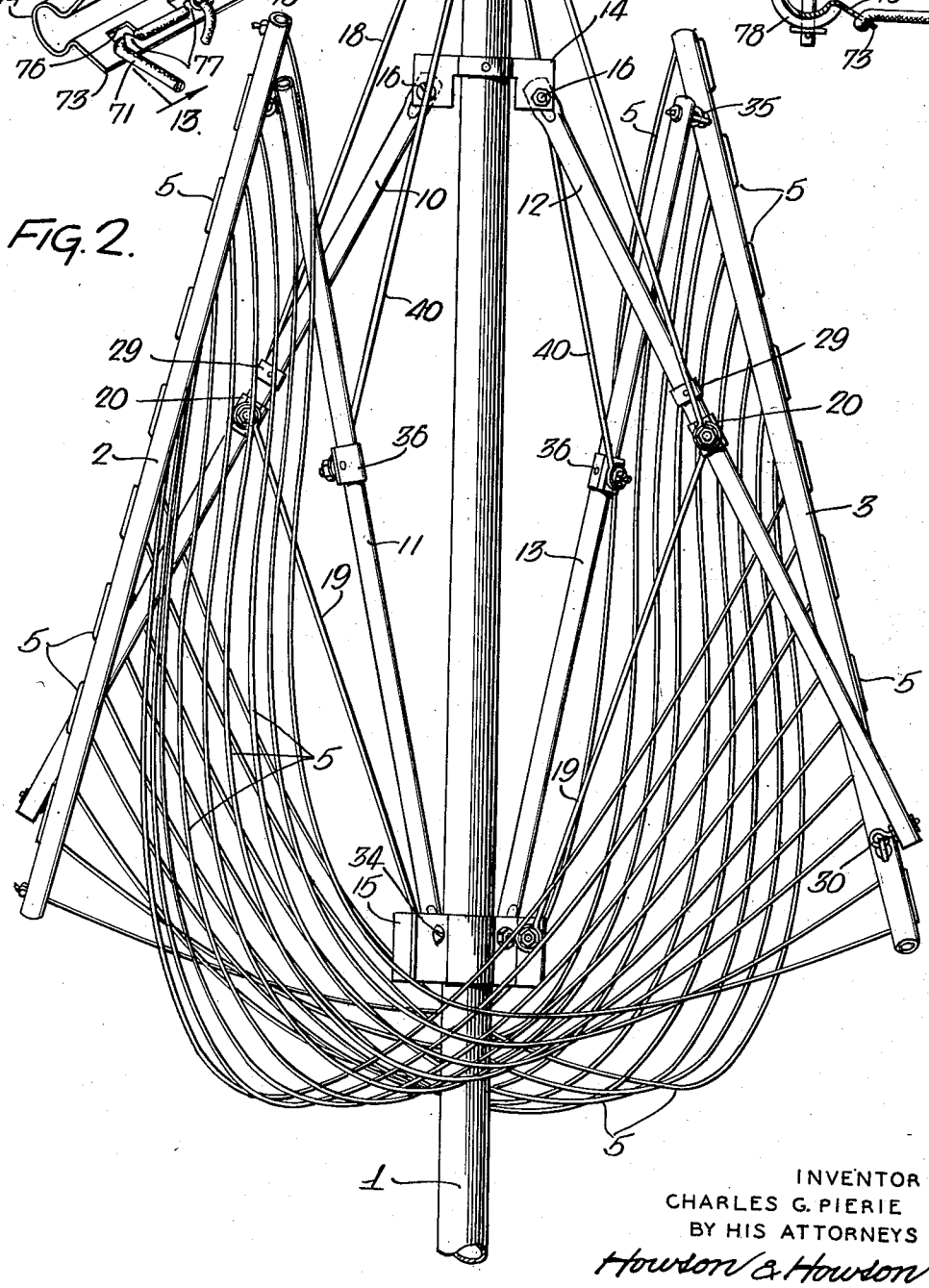



FIG. 2.




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FIG. 9.

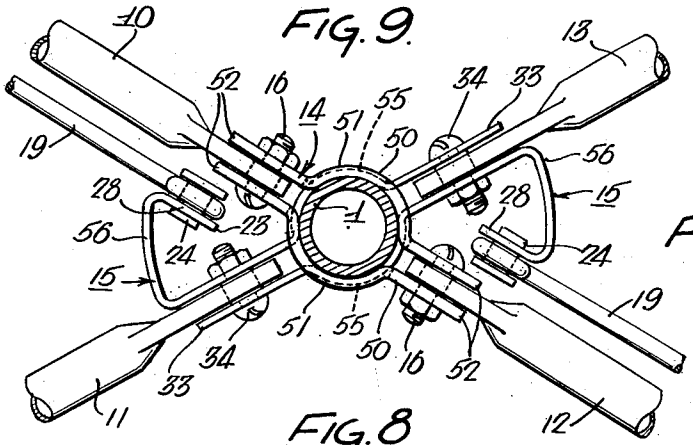



FIG. 8

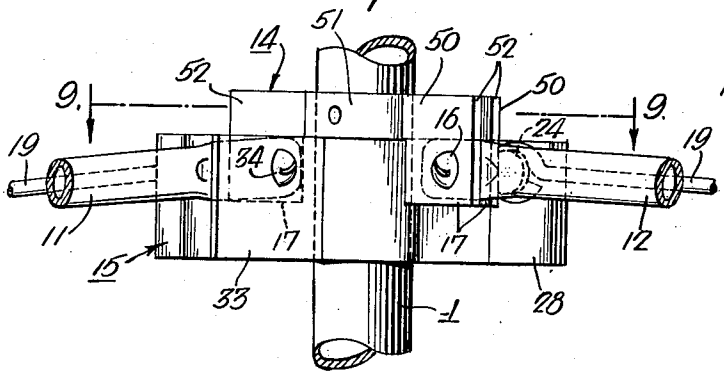



FIG. 3.

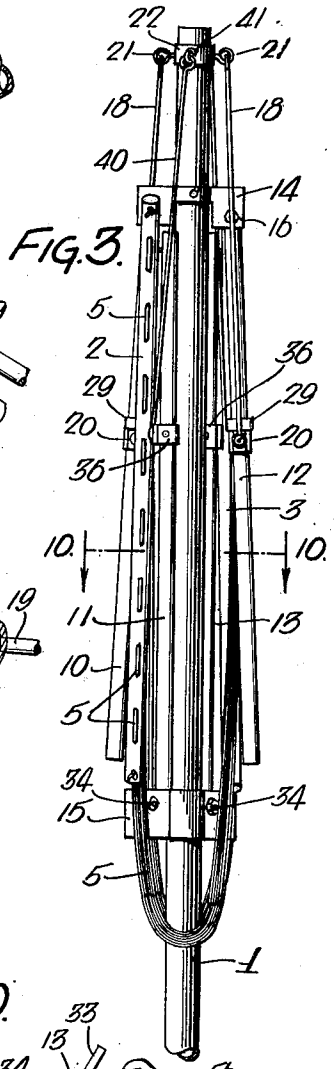



FIG. 11.

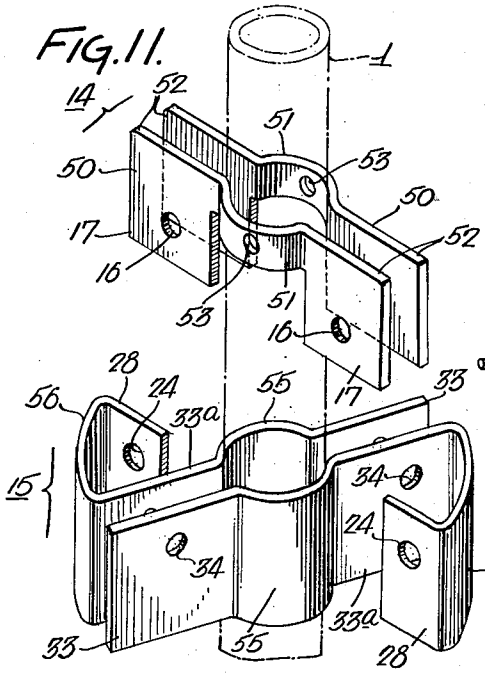
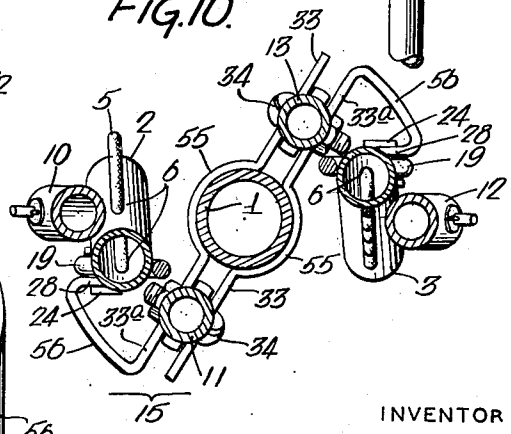



FIG. 10.




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FIG. 14.

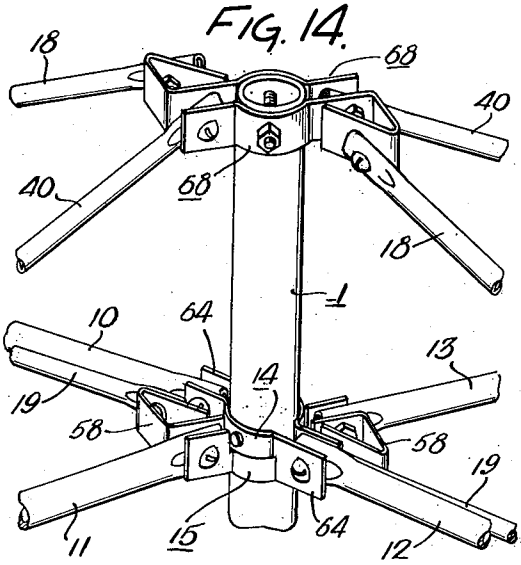



FIG. 15.

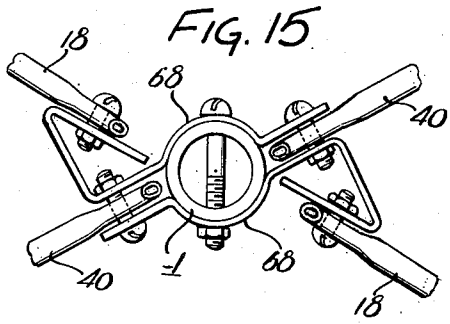



FIG. 16.

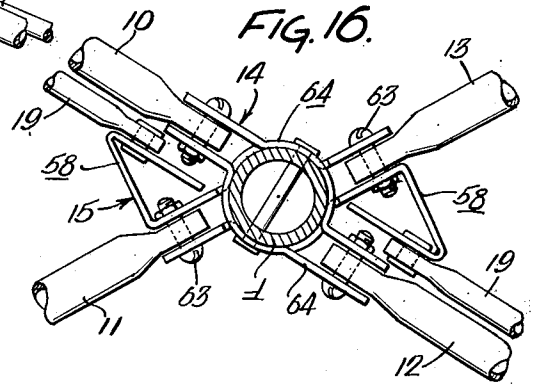



FIG. 17.

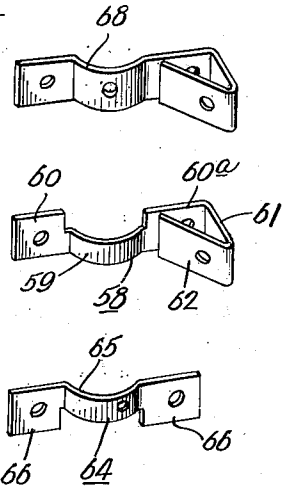



FIG. 18.

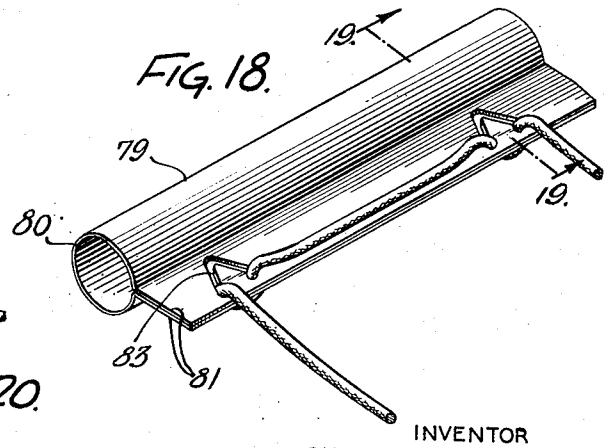



FIG. 19.

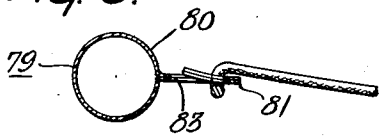
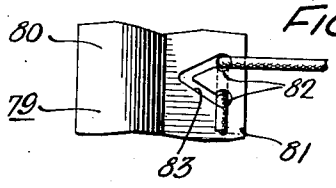



FIG. 20.




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# UNITED STATES PATENT OFFICE

2,670,855

## COLLAPSIBLE CLOTHES HANGER

Charles G. Pierie, Huntington Valley, Pa.

Application July 16, 1952, Serial No. 299,171

6 Claims. (Cl. 211—178)

1

The present invention relates to new and useful improvements in clothes dryers of the collapsible type, and more particularly to dryers of the stated class wherein parallel clothes lines are stretched horizontally between spaced parallel hangers as distinguished from the umbrella-type wherein the clothes lines are carried directly on arms projecting radially from a central supporting pole.

Prior art outdoor clothes dryers have been characterized by several undesirable features which the present invention overcomes. For example, one form of dryer having parallel clothes lines stretched between hangers utilizes folding sections for each hanger. The present invention eliminates the necessity for a folding joint in any of the hangers or supporting arm; it does not require any latching or locking device; and its construction is entirely symmetrical. Nevertheless it is possible to retain the desirable features inherent in using clothes lines that are all parallel to each other yet which can be readily collapsed and stored.

A primary object of the present invention is to provide a dryer of the stated class wherein the hangers for the clothes lines are normally maintained in extended horizontal position without separate latching mechanism.

A further object is to provide a clothes dryer of the stated class wherein the hangers are supported by a plurality of arms projecting, when in extended position, radially from a common point on the central supporting pole.

A still further object is to provide readily releasable means for attaching the clothes lines to the hangers of the dryer.

Still another object is to provide a clothes dryer susceptible of economical manufacture and possessed of relatively great strength and rigidity.

These and other objects of the invention and the various details of the construction and operation thereof, are hereinafter fully set forth and described with reference to the accompanying drawings, in which:

Fig. 1 is a view in perspective of a collapsible clothes dryer made in accordance with the present invention showing the same fully extended and set up for use;

Fig. 2 is a side elevation showing the relative positions of the parts of the clothes dryer in partially collapsed position;

Fig. 3 is a view similar to Fig. 2 showing the structure in fully collapsed position;

Fig. 4 is a fragmentary sectional view taken on the line 4—4 of Fig. 1;

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Fig. 5 is a view similar to Fig. 4 taken on the line 5—5 of Fig. 1;

Fig. 6 is an enlarged sectional view taken on the line 6—6 of Fig. 4;

Fig. 7 is an enlarged fragmentary side elevational view of the supporting member for the clothes line as seen from the left in Fig. 5, illustrating the connection between said member and its supporting arm;

Fig. 8 is an enlarged elevational view illustrating a detail of the dryer construction;

Fig. 9 is a sectional plan taken on the line 9—9 of Fig. 8;

Fig. 10 is an enlarged sectional view taken on the line 10—10 of Fig. 3;

Fig. 11 is a detached perspective view of the elements for connecting the supporting arms to the central pole, with the latter shown in broken lines;

Fig. 12 is a fragmentary perspective view illustrating a modified form of supporting element for the clothes line; and,

Fig. 13 is a sectional view taken on the line 13—13 of Fig. 12.

Fig. 14 is a fragmentary perspective view of the clothes line dryer of the present invention illustrating a modified form of the elements for connecting the supporting arms to the central pole;

Fig. 15 is a plan view of the construction shown in Fig. 14 illustrating the means for securing the supporting links to the top of the central pole;

Fig. 16 is a sectional plan view of the apparatus shown in Fig. 14 illustrating the construction of the fixed and sliding collars.

Fig. 17 is a detached perspective view illustrating the construction of the various elements of the present modification;

Fig. 18 is a fragmentary perspective view illustrating a modified form of support element for the clothes line;

Fig. 19 is a transverse sectional view of the supporting element taken on line 19—19, Fig. 18; and,

Fig. 20 is a fragmentary plan view of the supporting elements shown in Fig. 18 illustrating the means for securing the clothes line to the supporting arm.

The present invention comprises essentially a pair of parallel hangers between which a plurality of clothes lines are stretched. The hangers are loosely held in position by four arms which extend radially from a center post or pole. A swivel connection is provided between the ends of the arms and the hangers so that when the

arms are pivoted against the center pole, the hangers also swivel into a compact position in line with and adjacent the arms and the pole. In order to accomplish this result, the opposite arms have similar turning action so that the tip of the arm supporting one end of a hanger is raised whereas the tip of the adjacent arm supporting the opposite end of the hanger is lowered. Compact collapsed alignment of the various elements is further enhanced because adjacent arms supporting opposite hangers pivot in the opposite directions so that diagonal extremities of the hangers are raised and lowered respectively. The connecting linkage for the arms is such that the two opposite arms whose tips pivot downwardly are secured to a fixed elevated bracket or collar near the top of the center pole. The other two opposite arms whose tips pivot upwardly are pivoted to a collar or bracket which slides downwardly on the pole when the arms are to be collapsed. Additional support for the arms is provided through a plurality of links suspended from a point above the fixed collar near the top of the pole. In addition the two arms connected to the upper fixed bracket are actuated from the slidable bracket through individual struts which coincide with the position of their associated arms when the assembly is extended to an operative clothes supporting position.

Referring now to the drawings, a preferred form of clothes dryer made in accordance with the present invention is illustrated comprising a central vertical pole 1, a pair of hangers 2 and 3 respectively, and a framework 4 for supporting the hangers both in the extended and the collapsed positions. When the dryer is set up for use (see Fig. 1), the members 2 and 3 assume the spaced apart relationship shown so as to stretch between them a plurality of parallel strands of clothes line 5. In the present embodiment the hangers 2 and 3 are tubular in form and are provided with a series of spaced apertures 6 for the reception of the clothes line, it being noted that the apertures pass through both walls of the tubular member so that the line may be threaded through the complete series of apertures in a continuous strand as clearly shown in Fig. 1.

In accordance with the present invention, the dryer is constructed so that any weight on the clothes line 5 maintains the dryer in the extended position illustrated in Fig. 1. To this end the supporting framework 4 comprises a plurality of, in the present instance, four, radially extending arms 10, 11, 12 and 13. The arms 10 and 12 operate similarly and are pivotally connected at their inner extremities to a fixed collar 14 spaced downwardly from the upper extremity of the pole 1 and are connected at their outer extremities to the hangers 2 and 3 by swivel joints 30. The arms 11 and 13, on the other hand, are connected at their outer extremities to the hangers 2 and 3 by swivel joints 35 and are pivotally secured at their inner extremities to a movable collar 15 which is slidably mounted on the pole 1 for vertical movement.

Referring to Figs. 4 and 9, the arms 10 and 12 are pivoted to the fixed collar 14 for pivotal movement between the horizontal position of Fig. 1 and the vertical position of Fig. 1 and the vertical position of Fig. 3. The arm 10, for example, is pivoted by a bolt 16, to a radial ear 17 of the fixed collar 14 (see Fig. 9). The arm 10 is tubular in form and is flattened at its inner extremity to provide a face to face contact with the ear 17 for said pivotal movement.

The arm 10 is supported in its extended position by a toggle linkage which is operable upon downward displacement of the slidable collar 15 to allow the arm 10 to pivot downwardly about the bolt 16. The toggle comprises an upper link 18 and a lower strut 19 which are pivotally connected at their outer extremities to a collar 20 which is slidably mounted on the arm 10. The inner extremity of the upper link is pivotally connected to an eye bolt 21 rigidly mounted on a fixed ring 22 at the upper extremity of the pole 1. The inner extremity of the lower strut is pivoted to an inturned radial projection 23 on the vertically slidable collar 15 as by a rivet 24. The projection 23 is formed on the collar, as more fully set forth below, so as to be on a level with the ear 17 when the collar 15 is in its uppermost limit position. Thus, when the arm is in extended horizontal position the strut 19 will assume the spaced parallel relation illustrated in Fig. 4.

The outer extremity of the arm 10 supports the member 2 by means of the swivel joint 30. This joint, in the present instance, comprises an eye bolt 31 which is free to turn in the outer end of the arm 10, and a second eye bolt 32 which is free to turn in the hanger 2. The eyes of the bolts 31 and 32 are interengaged to afford substantial freedom of movement. Other swivel joints may be employed without departure from the invention.

With reference to Figs. 1, 2, and 4, it is apparent that when the collar 15 is displaced downwardly, the strut 10 and the link 18 will pivot about their inner ends at 24 and 21 respectively so as to cause the collar 20 to move downwardly and inwardly on the arm 10. The movement of the collar will displace the arm 10 downwardly about the bolt 16. When the collar 15 reaches its lower limit position the arm 10 will be substantially parallel to the center pole 1 as illustrated in Fig. 3. If necessary a collar 29 may be fixed on the arm 10 to limit the inward movement of the collar 20 on the arm. The collar will insure against undesired over-center locking of the toggle linkage when in the collapsed position illustrated in Fig. 3.

To raise the arm 10 back to the extended position the collar 15 is displaced upwardly along the pole 1 into engagement with the collar 14 (the position shown in Fig. 4). The upward movement of the collar 15 will effect the reverse of the operations described above. When the collar 15 is engaged against the collar 14 the strut 19 is slightly over-center, i. e., the bolt 24 is above the collar 20, so that weight of the structural members bearing down on the collar 20, compressing the strut 19 will tend to maintain the collar 15 in its upper limit position against the collar 14. Similarly, the weight of the clothes on the outer extremity of the arm 10 will tend to pivot the arm counterclockwise about the bolt 16, further compressing the strut 19 and urging the collar 15 more securely against the collar 14. To collapse the structure, it is necessary to move the collar 15 itself so as to overcome the over-center locking. The present construction, therefore, locks the dryer in extended position without the necessity of separate latching mechanism.

In accordance with the present invention, the structure associated with the arms 11 and 13 likewise locks the structure in the extended position illustrated in Fig. 1. The arm 11, for example, is pivotally secured to a radial ear 33 on the movable collar 15 by a bolt 34. The arm is tubular in

form and is flattened at its inner extremity to provide a face to face contact at the pivotal connection. The outer extremity of the arm is provided with a swivel joint 35 which is constructed and arranged in the present instance similarly to the joint 30 on the arm 10 (see also Fig. 7). Fixedly secured to the arm 11 intermediate its ends, is a collar 36 which pivotally mounts at 39 the outer extremity of a link 40 which is connected to the upper extremity of the pole 1 by an eye bolt 41 set in the fixed ring 22.

When the arm is in the extended position illustrated in Figs. 1 and 5, weight exerted on the outer extremity of the arm 11 will tend to pivot the arm counterclockwise about the pivot 39. This pivotal motion will cause the inner extremity of the arm 11 to move upwardly at the pivotal connection 34 with the collar 15. The weight on the outer extremity or tip of the arm 11 will therefore urge the collar 15 into secure engagement with the collar 14, supplementing the locking action described above in connection with the arm 10.

To release the arm 11 from the extended position, the collar 15 is displaced downwardly pivoting the arm 11 clockwise about the pivot points 34, 34. Further downward movement of the collar 15, pivots the link 40 about an eye bolt 41 so as to cause the outer extremity of the arm 11 to be elevated. When the collar 15 reaches its lower limit position, the arm 11 will be approximately parallel to the pole 1. The hanger 2 which spans the outer extremities of the arms 10 and 11 will also be approximately parallel to the pole. To raise the arms again, simple upward displacement of the collar 15 into the over-center engagement with the collar 14 may be effected to lock the arms in extended position.

As stated above, the arms 12 and 13 function like the arms 10 and 11 respectively, and corresponding structural elements have been designated by identical reference numerals.

Substantial economy in manufacture is afforded by the preferred formation of the collars 14 and 15, as illustrated in Figs. 9–11 inclusive. The collar 14, for example, comprises opposed elements 50, 50, each formed with an arcuate body portion 51, conforming to the contour of the pole 1, and a pair of oppositely diverging radial projections 52 which in conjunction with the projections of the other element 50 form the ears 17, 17 for pivotally supporting the arms 10 and 12 as described above. The body portions 51 may be provided with suitable apertures 53 for reception of a pin for immobilizing the collar 14 on the pole.

The slidable collar 15, on the other hand, is of a segmental construction consisting of arcuate body portions 55, 55 each of which terminates at opposite ends in the radial ears 33 and 33a. Arcuate bands 56, 56 are formed integral with the ears 33a and interconnect the outer extremities of the ears 33a with the aforedescribed projections 28. With reference to Fig. 11 it is seen that each segment of the collar 15 consists of the portions 33, 55, 33a, 56, and 28; all formed as shown. In this manner the collar may be formed to afford accurate sliding engagement with the pole for easy assembly thereon. The construction also affords inherent rigidity and exhibits substantial resistance to functional deterioration. The body portions 51 of the collar 14 are reduced in the axial dimension relative to the ears 52 so that the lower portions of the latter elements depend downwardly below the lower seating surface



of the body portions 50, 50 of the collar 14. In forming the ears in this manner, it is possible to locate the pivot points 16 in transverse alignment with the pivots 24 and 34 as is clearly illustrated in Figs. 8 and 11. The construction presents an improved sturdiness and symmetry in that the arms project radially from a common point on the pole.

Figs. 14 to 17 inclusive illustrate a further modification of the present invention which considerably decreases the cost of manufacture and permits easier assembling of the clothesline dryer. In this embodiment, the sliding collar 15 which pivotally mounts the arms 11 and 13 comprises a pair of similarly configurated opposed elements 58, 58, each formed with an arcuate body portion 59 conforming to the contour of the pole 1 and a pair of offset ears 60 and 60a. The ear 60a has a body portion 61 formed integrally therewith and extending at right angles thereto which terminates in an angularly disposed inwardly extending end portion 62. The elements 58 are positioned at opposite sides of the pole 1 in the manner illustrated in Fig. 16, with the inner ends of the arms 11 and 13 disposed between adjacent ears 60 and 60a. Bolts 63, 63 are inserted through registering openings in the arms and ear portions to pivotally mount the arms 11 and 13 to the sliding collar 15. The struts 19, 19 are pivotally secured to the inwardly extending end portions 62, 62 of the elements 58, for example, by means of rivets as shown in Fig. 16.

The stationary collar 14, in a manner similar to the sliding collar, also comprises a pair of similarly configurated elements 64, 64, which are secured to the pole 1 and pivotally mount the arms 10 and 12. Each element 64 comprises an arcuate body portion 64 and a pair of offset ears 66, 66. An opening is provided through the arcuate body portion of each of the elements 64 to permit the elements 64 to be secured to the pole 1 in opposed relation and the arms 10 and 12 are secured between the ears of the opposite elements 64, 64 in the manner illustrated in Figs. 14 and 16 for pivotal movement with respect to the pole 1. The arcuate body portion of each of the elements 58 and 64 is foreshortened in the axial direction as previously described in connection with the embodiment illustrated in Fig. 11 to permit the elements 58 and 64 to nest within each other when the clothes dryer is in its extended position.

The bracket for supporting the upper ends of the links 18 and 40 is illustrated in Figs. 14 and 15 of the drawings and comprises a pair of elements 68, 68 which have a configuration corresponding to the configuration of the elements 58. The elements 68, 68 are secured to the upper end of the pole 1 and pivotally mount the upper ends of the links 18 and 40 in the manner shown in Fig. 15. By this construction, it will be observed that the cross sectional shapes of the elements 58, 64 and 68 are similar with the exception that the elements 64 do not have the angular extensions provided on the elements 58 and 68. This similarity between parts makes it possible to produce all of the elements 58, 64 and 68 from the same sheet of stock material and many of the dies may be used for all three of these elements thereby considerably decreasing the cost of manufacture.

Considerable deviation from the above-described structural details may be effected without departure from the present invention. For example, the clothes line may be secured to longitudinal hangers 72, 72 which correspond in function to the hangers 2 and 3. As illustrated in

Figs. 12 and 13, the clothes line 11 is releasably connected to the hangers 12 so that it may be simply hooked in engagement with the hangers without the necessity of having a free end.

Each hanger 12 comprises a thin sheet metal member bent in the form illustrated. The diverging flanges 13 of the hanger are adapted to receive the clothes line in releasable engagement as set forth below, and the circular portion 14 is adapted to receive an eye bolt 15 for connection to members (not shown) corresponding to the arms 10 to 13 inclusive. To provide reinforcement for the circular portion at the point of attachment to the bolt 15, a suitable collar 18 is provided, as clearly illustrated in Figs. 12 and 13.

The flanges 13 are provided with spaced pairs of apertures 16, the outer edge of which are provided with tangs 17 which project inwardly to engage the line 11. The line may be readily secured to the member 12 by simply looping the line over each tang 17 in the apertures 16, as shown in Fig. 12. It is noted that the lines are tensioned between pairs of apertures alternating between the upper and lower flanges of the member 12 so that the member is held under balanced torsional forces. This illustrated structure affords substantial economy in manufacture and simplicity in assembly of the line 11 to the members 12.

A further modification of the hangers or crossarms which support the clothesline is illustrated in Figs 18, 19 and 20 of the drawings. In this embodiment the hanger, designated generally as 19, comprises a sheet-metal member having a circular body portion 80 and outwardly extending adjacent flanges 81. The flanges are provided with spaced pairs of circular apertures 82 interconnected by means of a V-shaped slot 83. The width of the slot 83 is slightly less than the diameter of the clothesline adapted to be inserted in the openings 82, as shown in Fig. 18, and in order to insert the clothesline into the apertures 82 the portion of the flange 81 bounded by the V-shaped slot 83 must be displaced upwardly with respect to the flange 81. The hangers 19 are manufactured from a resilient material so that the upwardly displaced portion of the flanges 81 will return to its original position after the clothesline is inserted in the apertures 82 and will thereby securely lock the clothesline in the apertures 82.

Other structural modifications which will be readily apparent to those skilled in the art are deemed to lie within the scope of the invention as defined in the appended claims.

I claim:

1. In an outdoor collapsible clothes dryer having a central pole adapted to be mounted in a vertical position, and a pair of elongated rigid unitary clothesline hangers adapted in the set-up position of the dryer to be horizontally disposed in spaced apart relation at opposite sides of the central pole and in the collapsed position of the dryer to be vertically disposed closely adjacent and parallel to said post; a supporting structure for said hangers for moving the same between said set-up and collapsed positions of the dryer comprising a first pair of arms having a swivel connection at their outer ends to opposite end portions of said hangers and pivotally connected at their inner ends to a first fixed point on the pole, a link associated with each of said arms having its inner end pivotally connected to a second fixed point on the pole above said first fixed point and its outer end pivotally and slidably connected to the arm, a collar slidable vertically on said pole between a lower position and an upper position adjacent said first fixed point on the pole, a strut associated with each arm of said first pair of arms and pivotally and slidably connected at its outer end to the arm and pivotally connected at its inner end to said vertically slidable collar, said struts being arranged in the upper position of said collar to lie substantially parallel to said arms, a second pair of arms having a swivel connection at their outer ends to the other end portions of said hangers and pivotally connected at their inner ends to said collar, and a supporting link for each arm of said second pair having its inner end pivotally connected to said second fixed point on the pole and its outer end pivotally connected to said arm at a fixed point intermediate the ends thereof.

2. In an outdoor collapsible clothes dryer having a central pole adapted to be mounted in a vertical position, and a pair of elongated rigid unitary clothesline hangers adapted in the set-up position of the dryer to be horizontally disposed in spaced apart relation at opposite sides of the central pole and in the collapsed position of the dryer to be vertically disposed closely adjacent and parallel to said post; a supporting structure for said hangers for moving the same between said set-up and collapsed positions of the dryer comprising a first pair of arms having a swivel connection at their outer ends to opposite end portions of said hangers and pivotally connected at their inner ends to a first fixed point on the pole, a member slidable longitudinally on each arm of said first pair of arms, a link associated with each of said arms having its inner end pivotally connected to a second fixed point on the pole above said first fixed point and its outer end pivotally connected to said member slidable on the arm, a collar slidable vertically on said pole between a lower position and an upper position adjacent said first fixed point on the pole, a strut associated with each arm of said first pair of arms and pivotally connected at its outer end to said member slidable on the arm and pivotally connected at its inner end to said collar, said struts being arranged in the upper position of said collar to lie substantially parallel to said arms, a second pair of arms having a swivel connection at their outer ends to the other end portions of said hangers and pivotally connected at their inner ends to said collar, and a supporting link for each arm of said second pair having its inner end pivotally connected to said second fixed point on the pole and its outer end pivotally connected to said arm at a fixed point intermediate the ends thereof.

3. In an outdoor collapsible clothes dryer having a central pole adapted to be mounted in a vertical position, and a pair of elongated rigid unitary clothesline hangers adapted in the set-up position of the dryer to be horizontally disposed in spaced apart relation at opposite sides of the central pole and in the collapsed position of the dryer to be vertically disposed closely adjacent and parallel to said post; a supporting structure for said hangers for moving the same between said set-up and collapsed positions of the dryer comprising a first pair of arms having a swivel connection at their outer ends to opposite end portions of said hangers and pivotally connected at their inner ends to a first fixed point on the pole, said point being above the horizontal level defined by said hangers in the set-up

position of the dryer, so that in said position the arms are each inclined outwardly and downwardly from said fixed point, a member slidable longitudinally on each arm of said first pair of arms, a supporting link associated with each of said arms having its inner end pivotally connected to a second fixed point on the pole above said first fixed point and its outer end pivotally connected to said slidable member, a collar slidable vertically on said pole between a lower position and an upper position adjacent said first fixed point on the pole, a strut associated with each arm of said first pair of arms and pivotally connected at its outer end to said member slidable on the arm and pivotally connected at its inner end to said collar, said struts being arranged in the upper position of said collar to lie substantially parallel to said arms, a second pair of arms having a swivel connection at their outer ends to the other end portions of said hangers and pivotally connected at their inner ends to said collar, and a supporting link for each arm of said second pair having its inner end pivotally connected to said second fixed point on the pole and its outer end pivotally connected to said arm at a fixed point intermediate the ends thereof, the said pivotal connections to said collar when the latter is in its upper positions, being on a level with said first fixed point, so as to position each of said second pair of arms at an inclination corresponding to the inclination of said first pair of arms.

4. A dryer according to claim 3 wherein a second collar is fixed on said pole and is formed at opposite sides with downwardly projecting radial ears which constitute the said first fixed point, and wherein further said aforementioned slidable collar is provided with upwardly projecting ears for said pivotal connections, and is adapted to engage against said second collar so as to put the ears of said second collar and said slidable collar on a common level above the level defined by the hangers in the set-up position of the dryer.

5. A dryer according to claim 3 wherein a second collar is fixed in said pole and formed at its opposite sides with outwardly projecting spaced parallel ears which constitute the said first fixed point, and wherein further said slidable collar is provided with outwardly projecting spaced parallel ears for said pivotal connections corresponding to the configuration of the ears on said second collar, and adapted to nest in said second collar to put said ears on a common level above the level defined by the hangers in the set-up position of the dryer.



6. In an outdoor collapsible clothes dryer having a central pole adapted to be mounted in a vertical position, and a pair of elongated rigid unitary clothesline hangers adapted in the set-up position of the dryer to be horizontally disposed in spaced apart relation at opposite sides of the central pole and in the collapsed position of the dryer to be vertically disposed closely adjacent and parallel to said post; a supporting structure for said hangers for moving the same between said set-up and collapsed positions of the dryer comprising a first pair of arms having a swivel connection at their outer ends to opposite end portions of said hangers and pivotally connected at their inner ends to a first fixed point on the pole, a member slidable longitudinally on each arm of said first pair of arms, stop means to limit the inward sliding movement of each said member, a link associated with each of said arms having its inner end pivotally connected to a second fixed point adjacent the upper extremity of the pole above said first fixed point and its outer end pivotally connected to said member slidable on the arm, a collar slidable vertically on said pole between a lower position and an upper position adjacent said first fixed point on the pole, a strut associated with each arm of said first pair of arms and pivotally connected at its outer end to said member slidable on the arm and pivotally connected at its inner end to said collar, said struts being arranged in the upper position of said collar to lie substantially parallel to said arms, a second pair of arms having a swivel connection at their outer ends to the other end portions of said hangers and pivotally connected at their inner ends to said collar, and a supporting link for each arm of said second pair having its inner end pivotally connected to said second fixed point on the pole and its outer end pivotally connected to said arm at a fixed point intermediate the ends thereof.

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