July 7, 1953 J. F. CAMPION 2,644,592

COLLAPSIBLE CLOTHES DRIER

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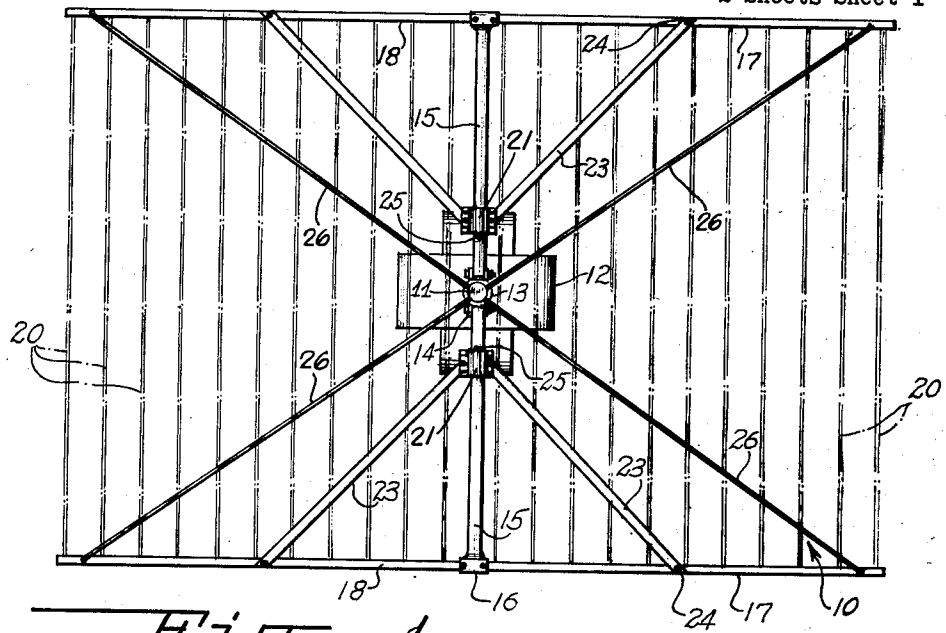


Fig. 1

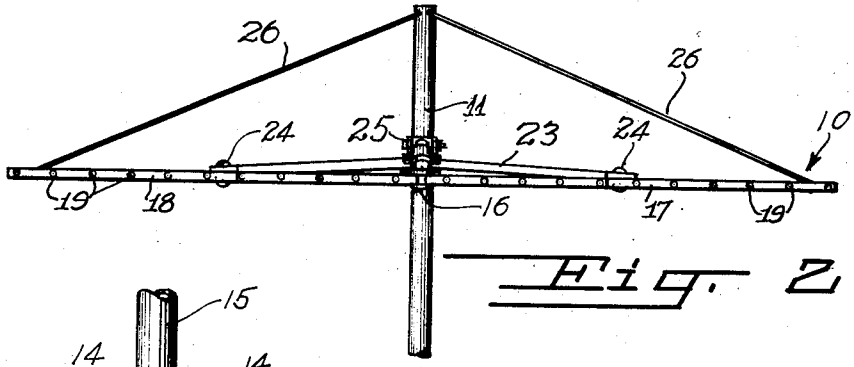


Fig. 2

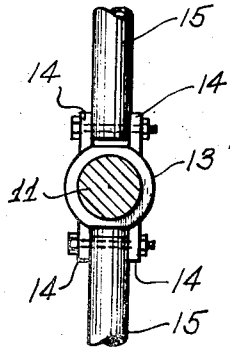


Fig. 4

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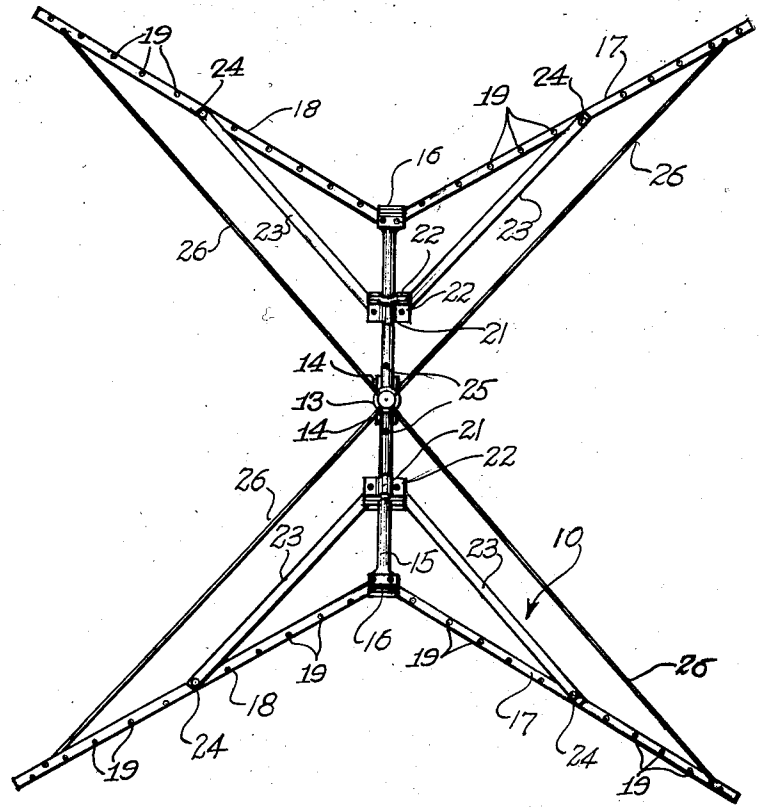
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Fig. 3



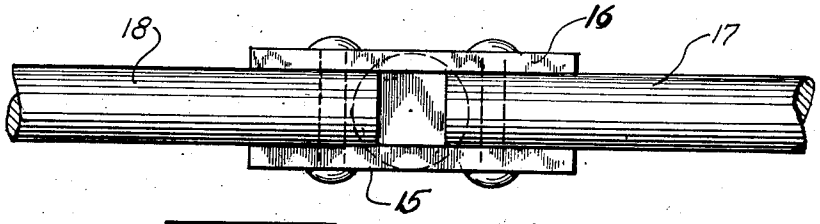


Fig. 5.

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COLLAPSIBLE CLOTHES DRIER

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Application February 26, 1951, Serial No. 212,823

1 Claim. (Cl. 211—178)

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This invention relates to a collapsible clothes drier and it consists in the constructions, arrangements and combinations herein described and claimed.

It is an important object of the invention to provide a collapsible clothes drier which when in raised or extended position will present a pair of parallel supports, between which clothes-lines may be secured, the lines extending in parallel relation to each other and all being of the same length thus increasing the capacity of the drier.

More specifically, it is an important object of the invention to provide a collapsible drier in which the clothes line supports consist of a pair of elements hingedly connected to respective support arms extended at right angles to an upright post and slidable thereon, each support arm being provided with a sliding sleeve movable thereon in the direction of and away from the upright post, the sleeves having a pair of brace arms pivoted thereto, said arms also being pivotally connected to respective line supports at points spaced outwardly of the hinge of said clothes line supports to extend the hinged elements in end to end alignment in the erection of the drier and to move said clothes line supports to folded position when lowering said drier.

Additional objects, advantages and features of invention will be apparent from the following description considered in conjunction with the accompanying drawings, wherein

Figure 1 is a top plan view of the drier in raised position,

Figure 2 is a side elevation thereof,

Figure 3 is a top plan view of the drier in partially collapsed position, the clothes supporting lines having been omitted, for clarity.

Figure 4 is a cross section illustrating the sliding collar on the upright post of the drier, and

Figure 5 is an elevation of a hinge connection employed in the clothes line supports.

There is illustrated a collapsible clothes drier 10 comprising an upright post 11 which may be suitably anchored in the ground as indicated at 12.

Upon the post 11, a collar 13 is slidably mounted having a pair of opposed spaced ears 14 for pivotally mounting respective support arms 15. Each arm 15 is formed with an outwardly opening channel member 16 for hingedly supporting one end of respective clothes line support elements 17 and 18, the latter being formed with a plurality of longitudinally spaced openings 19 through which lines 20 may be threaded and secured. A sleeve 21 is slidable on each arm 15, the

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sleeves having ears 22 arranged in pairs on opposite sides of the sleeves which pivotally mount one end of a support arm 23, the other end of these arms being pivotally connected to respective elements 17 and 18 as at 24 at points a substantial distance outwardly of the hinge 16, so that the arms 23 will be in a diagonal relation with respect to the arms 15 when the drier is in raised position, as shown in Figure 1. Thus the strain of support at the hinge 16 is greatly reduced, since the weight of suspended clothes on the lines 20 is distributed between the elements 17 and 18 and the arms 15 and 23.

A stop pin 25 is provided in each arm 15, limiting the inward movement of the sleeves 21 when the drier is in raised position.

The outer or free ends of the elements 17 and 18 are supported by a respective cable 26 secured to an upper portion of the upright post 11, these cables also functioning to move the line supporting elements 17 and 18 when the drier is being collapsed.

To erect the drier, it is only necessary to exert an upward movement of the collar 13 on the upright 11, effecting movement of the arms 23 so as to extend the elements 17 and 18 into end to end alignment, and in this position the sleeves 21 will engage the stop pins 25, and as may be seen in Figure 2, the collar 13 will have moved to a position above the horizontal plane of the line supporting elements 17 and 18 and is thus fully supported without the need for additional securing means.

To lower the drier, the collar 13 is moved downwardly upon the post 11 effecting movement of the elements 17 and 18 through arms 23 and sliding sleeves 21, as best seen in Figure 3, until all parts have moved into a vertical position with respect to the upright post 11.

While I have shown and described a preferred form of the device, this is by way of illustration only, and I consider as my own all such modifications in construction as fairly fall within the scope of the appended claim.

I claim:

A collapsible clothes drier comprising an upright post, a collar slidably mounted on said post and having pairs of ears positioned upon opposite sides thereof, a support arm pivotally mounted between the ears of each pair, said support arms each having an outwardly opening channel member at the end thereof, a pair of clothes line supporting elements arranged in aligned relation within each of said channel members and pivotally connected thereto, a sleeve slidably mounted

on each of said support arms, brace rods pivotally mounted to said sleeves and extended diagonally therefrom at opposite sides and pivotally connected to respective clothes line supporting elements at points spaced a substantial distance outwardly of said open channel members, stop means on said support arms for limiting sliding movement of said sleeves, and cable members connected between an upper portion of said upright post and outer ends of said clothes line supporting elements.

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