Nov. 16, 1943. R. TURNBULL 2,334,518

ROTARY CLOTHESLINE

Filed July 30, 1943

Fig. 1.

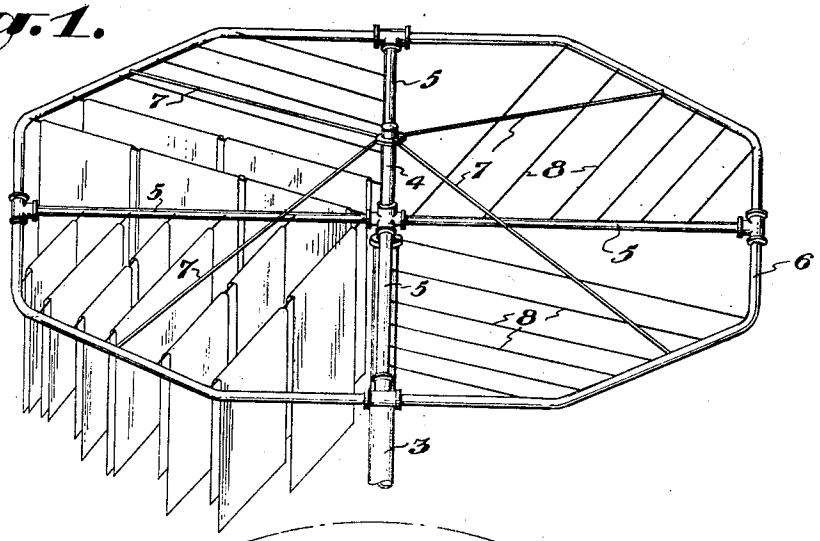
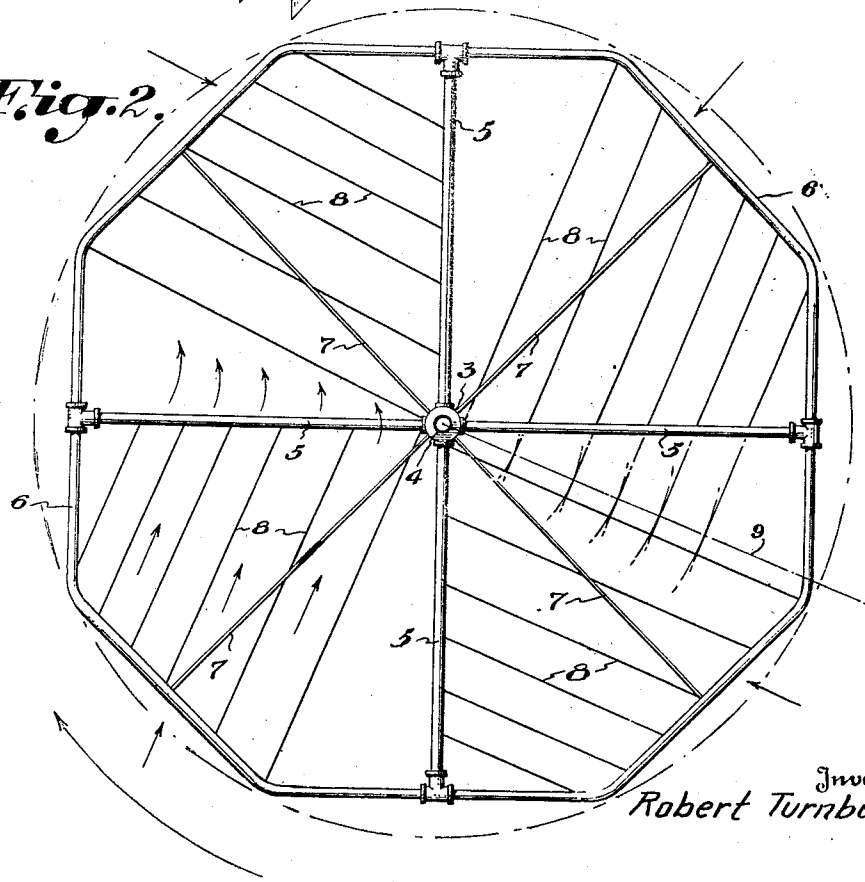


Fig. 2.



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Patented Nov. 16, 1943 2,334,518

UNITED STATES PATENT OFFICE

2,334,518

ROTARY CLOTHESLINE

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Application July 30, 1943, Serial No. 496,785
In Australia June 10, 1942

5 Claims. (Cl. 211—168)

This invention relates to the construction of clothes lines of the type supported on and adapted to rotate about a central standard.

Hitherto, clothes lines of this kind have been arranged in sectors formed about the central support with a group of lines in each sector, the whole resembling the pattern of a spider's web, the things to be dried being suspended from the groups of wires.

This invention has for its main object to avoid certain objectionable features in these known devices and to provide a series of clothes lines arranged in a circular or substantially circular device that will occupy a minimum of space, such as a domestic back yard, while permitting currents of air to freely move between the lines of wet articles suspended therein. It also provides for convenient access to the device for the purpose of raising or lowering the same, for charging and for removing from the completed assembly the pieces when dried.

In place of the spider-web arrangement hitherto in use, I propose to group in each sector of the rotary device a number of lines in parallel without entirely occupying the sector. The groups of lines are disposed in a horizontal plane tangentially to and preferably balanced about the centre of rotation. If there are four sectors, each line of one group will be in the same plane parallel with a line in another sector diagonally disposed thereto in the device.

In the case therefore of four groups or sectors each containing a number of lines in parallel, those of one group will be, if extended beyond their lateral supports, substantially at right angles upon the longest line in a neighbour group. With the lines disposed between a lateral and the perimeter of the device a space is left unoccupied between each lateral support and the line in the neighbour group to provide ready access from outside the rim or perimeter to the interior of the device and to the lines for placing thereon or removing therefrom the articles. It also provides for ready approach to the lifting or lowering mechanism, which is of any well known construction, for the purpose of raising the device charged with wet articles or for lowering the same when these are to be removed.

But in order to fully understand the invention reference is made to the accompanying drawing in which:

Figure 1 shows in perspective view a convenient form of device provided with four sectors and groups of parallel lines in each sector, and

Figure 2 is a plan view of same.

In the vertical tube **3**, shown shortened in Figure 1, the central support **4** is held. The said support will rest at its lower end in a bearing in which it may rotate in the usual way. Arms **5** extend radially from member **4** to engage at their outer ends in a tubular support constituting the perimeter **6** of the device. The framework is further held by stays **7** that connect with the perimeter and the top of the central support **4**. The perimeter may be circular in form if desired.

The clothes lines **8** are of varying lengths and are suspended between a lateral member **5** and the tubular perimeter, each group of lines being accommodated in a sector formed by two laterals **5**. If the lines **8** of one sector be extended to the imaginary line **9**, Figure 2, that indicates a radius from the support **4**, they will be at right angles thereto and if extended beyond **9** to the first line in the neighbour sector they will meet such line substantially at right angles as shown in dotted lines in the drawing.

With the lines of each group being the same in number and spaced respectively the same distance apart arranged in the manner explained, each member of a group will be tangentially disposed about the central rotating support while the whole system remains balanced thereabout.

It will thus be apparent that with the clothes lines arranged as described and with the wind from S. W. as indicated by the arrow in Figure 2, a current of air will follow the arrows to pass between the lines of articles to then impinge on those supported in the next sector. These will act as a vane to cause the air pressure to turn the device which as it rotates will bring the next sector under the influence of the air current. The wet articles therefore will be dried sooner than has hitherto been possible with the spider web arrangement of the lines. With the lines so disposed, a space in each sector remains unoccupied that extends from the perimeter inwards to the central support. The attendant will enter the space within the perimeter to remove the articles when dry or to hang a fresh supply.

Having described my invention what I claim as new and desire to secure by Letters Patent is:

1. In a device of the kind indicated, a pillar, a central support on and adapted to rotate about the pillar, a perimeter, arms extending laterally from the support to the perimeter and with the perimeter constituting sectors and parallel clothes lines disposed in a horizontal plane in each sector tangentially about the center of rotation and connected to the arms and the perimeter.

2. In a device of the kind indicated, a pillar, a

central support on and rotatable about the pillar, a tubular perimeter, arms extending laterally from the support to the tubular perimeter and together constituting sectors and parallel clothes lines horizontally hung in each sector between a lateral arm and the perimeter.

3. In a device of the kind indicated, a pillar, a central support on and adapted to rotate about the pillar, a perimeter, arms extending laterally from the support to the perimeter and together constituting sectors, parallel clothes lines disposed horizontally in and connected to each sector, between a lateral arm and the perimeter with free access to said pillar from outside each sector between a grouping of lines and a lateral arm.

4. In a device of the kind indicated, a pillar, a central support on and adapted to rotate about the pillar, a perimeter, arms extending laterally from the support to the perimeter and together constituting four sectors, parallel clothes lines grouped horizontally in and connected to each sector between a lateral arm and the perimeter and in which each line of a group in one sector is in the same plane parallel with a line in another sector diagonally situated towards the first mentioned sector in the device.

5. In a device of the kind indicated, a pillar, a central support on and rotatable about the pillar, a perimeter, arms extending laterally from said support to the perimeter and together constituting sectors, parallel clothes lines grouped horizontally in and connected to each sector between a lateral arm and the perimeter said parallel lines being identical in each sector in respect of number, dimension and spacing.

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