No. 867,646. PATENTED OCT. 8, 1907.

T. DITMANSON.

CLOTHES DRIER.

APPLICATION FILED APR. 25, 1907.

2 SHEETS—SHEET 1.

Fig. 1.

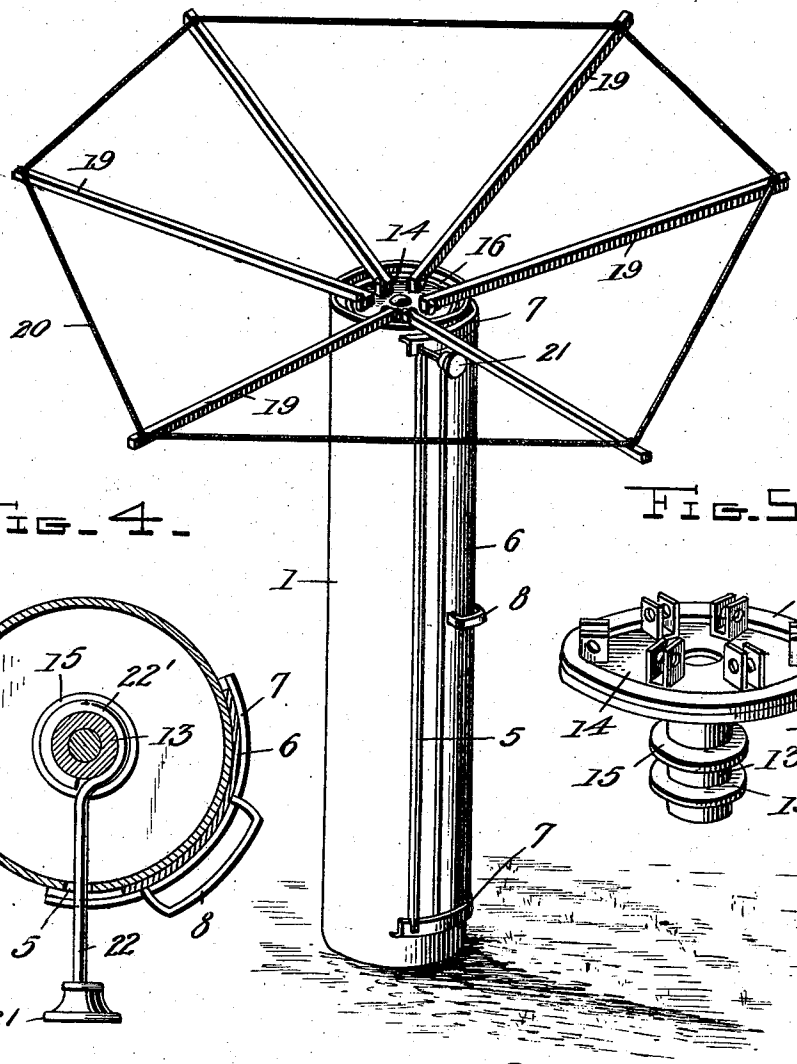


Fig. 4.

Fig. 5.

Witnesses

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2 SHEETS—SHEET 2.

FIG. 2.

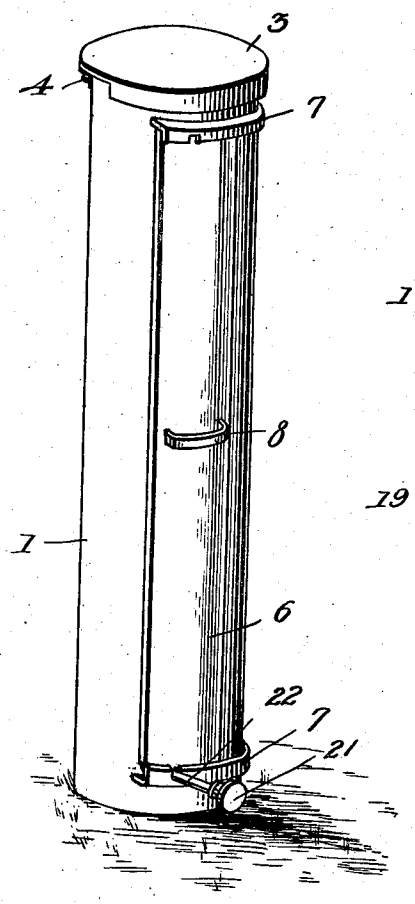
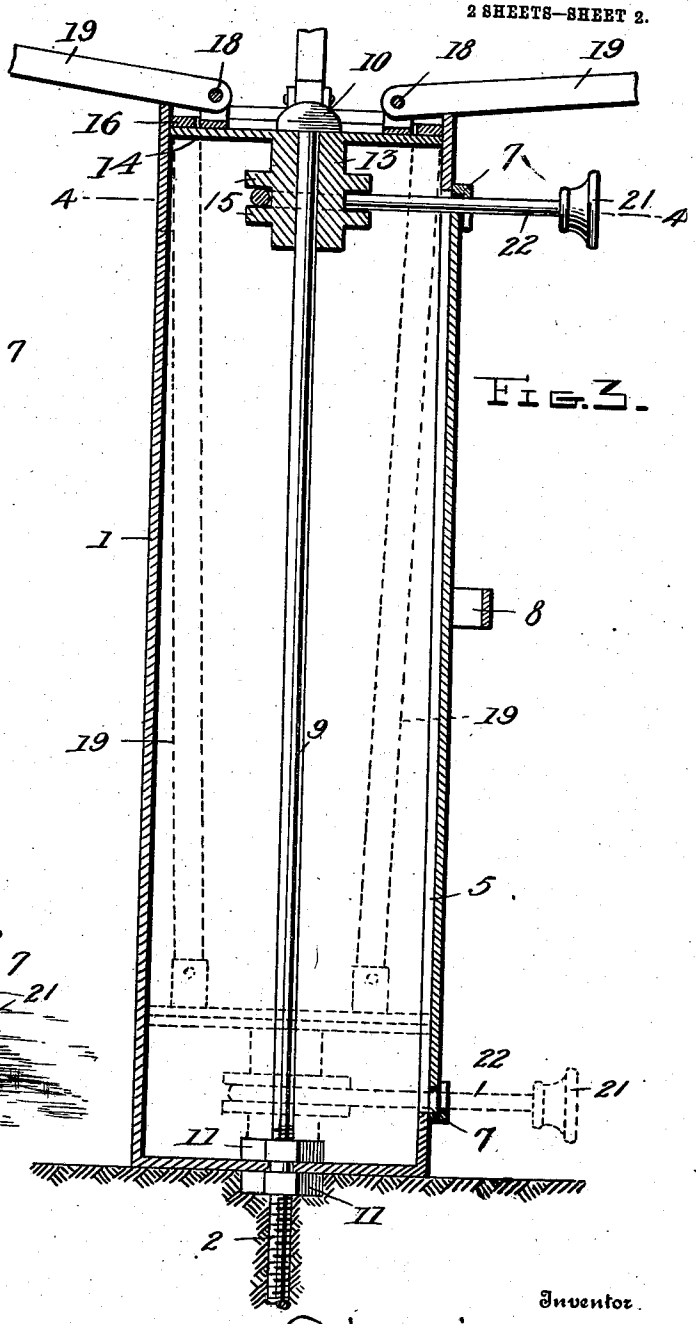


FIG. 3.



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UNITED STATES PATENT OFFICE.

TURINA DITMANSON, OF SUMMIT, SOUTH DAKOTA.

CLOTHES-DRIER.

No. 867,646. Specification of Letters Patent. Patented Oct. 8, 1907.

Application filed April 26, 1907. Serial No. 370,246.

To all whom it may concern:

Be it known that I, TURINA DITMANSON, a citizen of the United States, residing at Summit, in the county of Roberts and State of South Dakota, have invented certain new and useful Improvements in Clothes-Driers, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to improvements in devices for supporting clothes while they are drying and it consists in the novel features of construction and combination of parts hereinafter described and claimed.

The object of the invention is to provide a device of this character which when not in use may be compactly folded into its support or casing so that it will occupy but little space and will be well protected from the weather.

The above and other objects which will appear as the nature of the invention is better understood are accomplished by the preferred embodiment of my invention illustrated in the accompanying drawings, in which

Figure 1 is a perspective view of my improved foldable clothes drier, showing the same in its open position ready for use; Fig. 2 is a similar view of the same in its closed position; Fig. 3 is a vertical section through the device, showing it in its open position in full lines and in its closed position in dotted lines; Fig. 4 is a transverse section taken on the plane indicated by the line 4—4 in Fig. 3; and Fig. 5 is a detail view of the sliding head or member carrying the foldable supporting arms.

The improved clothes drier or support comprises an upright hollow casing preferably in the form of a cylindrical tube. It may be of such size as to form a post with its lower end suitably embedded or anchored in the ground or it may be mounted in any suitable manner upon a post or a supporting base of any description. As illustrated, it is in the form of a tubular post and has depending from its bottom an anchor 2 which is embedded in the ground. The top of this tubular support or casing 1 is open and provided with a removable cover 3 which if desired may be hinged as at 4. Formed in the wall of the casing or post 1 is a vertical slot or opening 5 adapted to be closed by a sliding door 6 which is curved transversely to correspond to the curvature of the outer side of the casing which it slidably engages and has its upper and lower ends projecting into guides 7. These guides are in the form of curved strips or plates suitably secured upon the exterior of the casing and spaced from the same to receive the ends of said door. The latter is provided with a suitable handle 8 by means of which it may be operated to open and close the slot 5.

Arranged concentrically in the casing is a vertical guide 9 preferably in the form of a rod which has an annular flange or stop shoulder 10 at its upper end which latter is disposed beneath the plane of the open top of the casing. The lower end of the rod 9 is suitably secured to the bottom of the casing or post but, as illustrated its connection therewith is formed by screw threading the rod and providing nuts 11 upon said threaded portion on opposite sides of said bottom. This projecting lower end of the rod may form the anchor 2, but if desired any other anchoring device may be applied to said rod or to the bottom of the casing, as above stated. The rod 9 forms a guide for a sliding head or member 12 consisting preferably of a sleeve 13 to slide upon said rod, an annular plate 14 arranged upon the upper end of said sleeve and two spaced annular flanges 15 arranged upon the lower end of the same. The plate or disk 14 is of such diameter that it slides freely within the tubular post or casing and upon its upper face is secured an annular reinforcing band 16 arranged adjacent to its outer edge, and also an annular series of U-shaped brackets in which are pivoted, as at 18, the inner ends of a plurality of foldable arms 19. These radiating arms 19 may be suitably connected by one or more strands of rope, wire, or the like 20, which will serve as a clothes line for supporting the clothes when the arms are extended. The sliding head or member 12 is moved up and down upon its guide 9 by means of a finger piece or knob 21 arranged upon the outer end of an operating rod 22 which projects through and slides in the slot 5 in the casing and has its inner end 22′ bent around the sleeve 13 between the flanges or collars 15, as clearly shown in Fig. 4. This construction permits the sleeve 13 to rotate within the end 23 of the operating rod 22 and since said sleeve can rotate as well as slide upon the rod 9, the head 12 may be freely rotated in the casing or post. When said head is moved upwardly upon the guide rod the arms 19 will be moved out of the open top of the casing and will drop by gravity to their open position in which their bottom edges rest upon the top edge of the casing, as clearly shown in the drawings. The engagement of the upper end of the sleeve 13 with the stop shoulder or head 10 serves to maintain the arms 19 in a substantially horizontal position. When the operating knob or handle 21 is moved downwardly, the head 12 will be carried downwardly and the arms 19 by reason of their engagement with the top edge of the casing will be swung upwardly into parallel relation and will move downwardly into the casing as said head is lowered. When the arms are entirely within the casing the cap 3 may be placed upon the top of the same and the sliding door 6 may be shifted to cover the slot 5, so that the entire casing will be effectively closed to prevent the entrance of dirt, water and other foreign matter.

From the foregoing it will be seen that the device provides an exceedingly simple and convenient means upon which clothes may be supported while drying.

When not in use its parts are effectively guarded and protected against the weather and also from being accidentally damaged or broken, and when it is desired to use the same it may be quickly and easily set up for operation. Since the head carrying the arms may freely rotate, the clothes may be quickly attached to the lines upon said arms while the person stands at one place.

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

1. A device of the character described, comprising a cylindrical casing having a vertical slot and an open top, a hinged cover for said top, guides arranged upon the side of the casing at the opposite ends of its slot, a sliding door engaged with said guides and adapted to close said slot, a sliding head in said casing, an operating element carried by said head and projecting through said slot for sliding movement therein and a foldable supporting frame carried by said head and movable into and out of the casing through its open top.

2. A device of the character described comprising a casing having a vertical slot and an open top, a closure for said top, a closure for said slot, a sliding head in said casing, an operating element carried by said head and projecting through said slot for sliding movement therein and a foldable supporting frame connected to said head and movable into and out of the casing through its open top.

3. A device of the character described comprising a casing having a vertical slot and an open top, a closure for said top, a closure for said slot, a concentric guide in said casing, a head rotatably and slidably mounted on said guide, an operating element loosely engaged with said head and projecting through and slidable in the slot in said casing and a foldable frame carried by said head and movable into and out of the casing through its open top.

4. A device of the character described comprising a casing having a vertical slot and an open top, a closure for said top, a closure for said slot, a guide rod in said casing, a stop at the upper end of said rod, a head slidable upon said guide, an operating element carried by said head and projecting through and slidable in the slot in said casing, and a foldable supporting frame carried by said head and movable into and out of the casing through its open top.

5. A device of the character described comprising a casing having a vertical slot and an open top, a concentric guide in said casing, a head rotatably and slidably mounted upon said guide, an operating element loosely engaged with said head and projecting through and slidable in the slot in said casing and a foldable frame carried by said head and movable into and out of the casing through its open top.

6. A device of the character described comprising a tubular casing, a concentric guide therein having a stop at its upper end, a sliding head upon said guide and adapted to engage said stop and a foldable frame carried by said head and movable into and out of the casing.

7. A device of the character described comprising a casing having an open top and a vertical slot, a guide arranged in said casing, a head slidably and rotatably mounted upon said guide and provided with spaced collars or flanges, a foldable support carried by said head and movable into and out of the casing, and an operating rod projecting through and slidable in a slot in the casing and having its inner end bent around said head between said collars or flanges for the purpose set forth.

8. A device of the character described comprising a tubular casing having an open top and a vertical slot, means for anchoring the lower end of said casing, a removable cover for the open top of said casing, a sliding door to close said slot, a concentric guide rod in said casing having a stop at its upper end, a sleeve slidable upon said rod, a plate at the upper end of said sleeve, spaced collars or flanges upon said sleeve, an operating rod having its inner end bent around said sleeve between said spaced collars or flanges and its outer end projecting through the slot in said casing, radial arms pivoted to said plate and clothes lines connecting said arms, substantially as described.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

TURINA DITMANSON.

Witnesses:
C. H. LIEN,
J. JORGENSAN.