

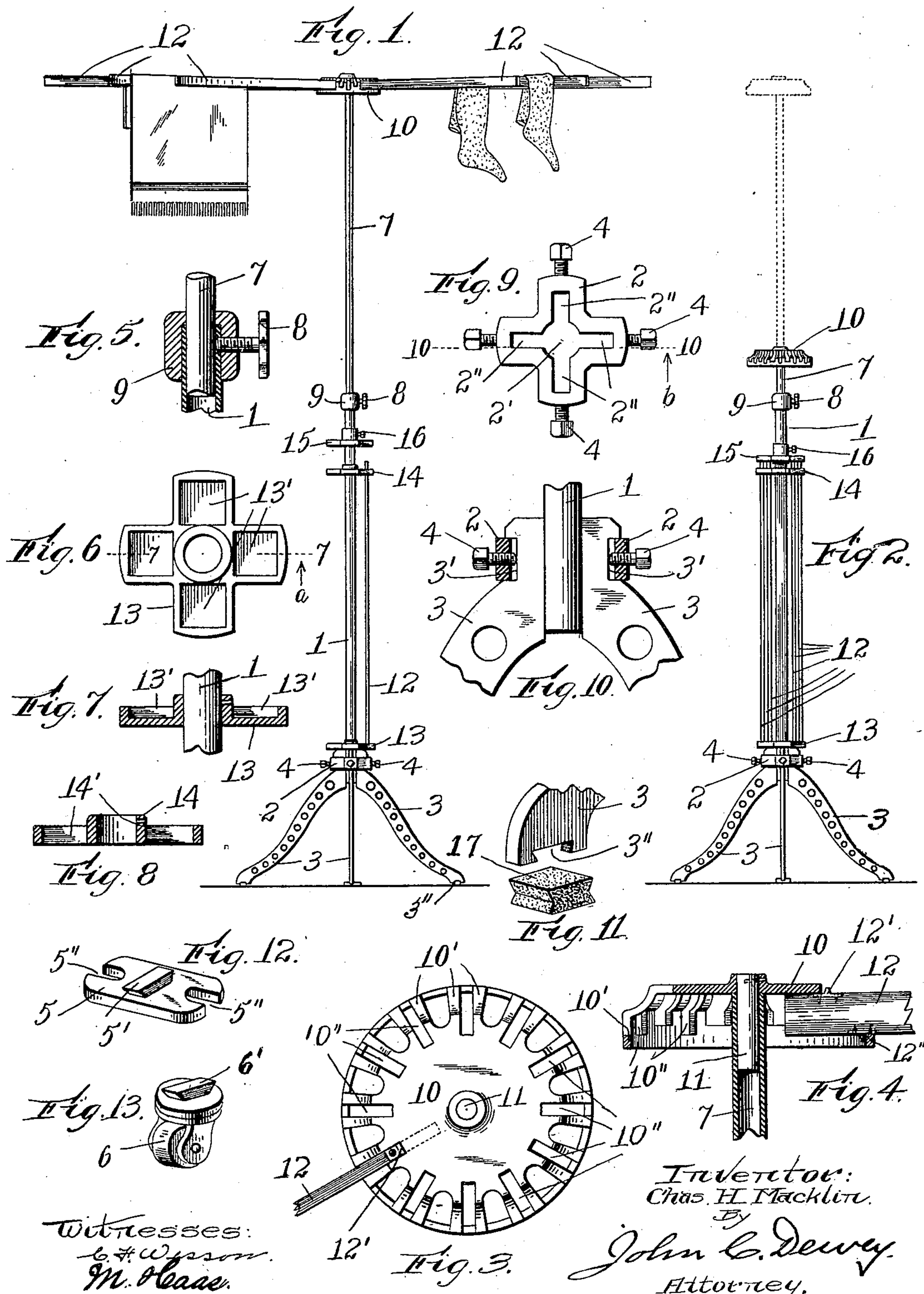
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C. H. MACKLIN.  
CLOTHES DRIER.

APPLICATION FILED OCT. 6, 1902.

NO MODEL.



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# UNITED STATES PATENT OFFICE.

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## CLOTHES-DRIER.

SPECIFICATION forming part of Letters Patent No. 730,675, dated June 9, 1903.

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*To all whom it may concern:*

Be it known that I, CHARLES H. MACKLIN, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Clothes-Driers, of which the following is a specification.

My invention relates to clothes-driers and to that class of clothes-driers which are used indoors; and the object of my invention is to make an improved clothes-drier which is not stationary or fixed in one place, but is movable from place to place as desired, and occupies an upright position on the floor like an outdoor clothes drier or reel, with the drier-arms movable to turn or swing around.

My invention consists in certain novel features of construction of my clothes-drier, as will be hereinafter fully described.

In my improved clothes-drier I have a main support or post having supporting-legs which rest on the floor and may be moved about from place to place as desired and a vertically-moving rod telescoping into the post portion and having at its upper end a revolvable top or disk having perforations therein to receive and hold the inner ends of the removable drier-sticks, upon which the clothes are hung. The drier-sticks when not in use may be taken out of their support and grouped around the post of the clothes-drier and the telescoping rod moved down into the post to reduce the size of the drier, all as will be hereinafter fully described.

Referring to the drawings, Figure 1 is a side elevation of a clothes-drier embodying my improvements, showing the parts in their operative position, but with one of the clothes-drier sticks removed and one of the sticks supported on the post. Fig. 2 corresponds to Fig. 1, but shows the drier in its inoperative position with the vertically-moving rod moved down into the post and all of the drier-sticks removed and grouped around and supported on the post portion. Fig. 3 is a plan view of the top of the drier, which holds and supports the drier-sticks. Fig. 4 is a central vertical section through the top shown in Fig. 3, showing one of the drier-sticks in

position. Fig. 5 is a sectional detail of the collar on top of the post, showing the hand-screw which secures the collar on the post and also holds the vertically-moving rod in its adjusted position. Fig. 6 is a plan view of the plate detached, which is secured on the lower end of the post and acts to hold the lower ends of the drier-sticks. Fig. 7 is a section on line 7 7, Fig. 6, looking in the direction of arrow *a*, same figure. Fig. 8 is a central vertical section of a second plate detached, which is secured at the upper end of the post and has openings therein to receive the upper ends of the drier-sticks. Fig. 9 shows the collar detached, which is secured upon the lower end of the post and receives the lower ends of the legs of the frame. Fig. 10 shows a section of the collar shown in Fig. 9, taken at a point indicated by line 10 10, looking in the direction of arrow *b*, same figure, and also shows the lower end of the post and two of the legs extending into said collar and secured therein. Fig. 11 shows the end of one of the supporting-legs and the removable rubber cushion detached therefrom. Fig. 12 shows a detached plate adapted to be secured to the lower ends of a supporting-leg of the drier, and Fig. 13 shows a detached caster adapted to be secured to the lower end of a supporting-leg of the drier. Figs. 3 to 13, inclusive, are shown on an enlarged scale.

In the accompanying drawings, 1 is the main support or post of the drier, preferably a metal pipe or tube, as gas-pipe.

2 is a collar having a central opening therein to receive the lower end of the post 1 and four slots 2' leading out therefrom to receive the upper ends of the legs 3, preferably four in number, and preferably made of cast metal with perforations therein to lighten the weight.

The upper ends of the legs 3 are notched at 3', as shown in Fig. 10, to receive the collar 2 and are secured in position bearing against the lower end of the post 1 by set-screws 4, tapped through the edges of the collar 2 and bearing at their inner ends against the upper ends of the legs 3.

In putting together the clothes-drier the



upper ends of the legs 3 are first inserted through the slotted portions 2'' in the collar 2 and then the lower end of the post 1 inserted between the upper ends of the legs 3 to cause them to move outwardly and the notches 3' therein to engage the collar 2, as shown in Fig. 10.

The lower ends of the legs 3 are preferably recessed at 3'', as shown in Fig. 11, to receive a rubber or flexible pad 17 to prevent the legs from marring or marking the floor.

Instead of the rubber pad 17 a plate 5 (shown in Fig. 12) may be substituted, having the projection 5' thereon, adapted to fit into the recess 3'' in the end of the leg 3, and slots or recesses 5'' therein to receive screws and secure the plate 5 rigidly to the floor if desired.

Instead of the plate 5 the caster 6, (shown in Fig. 13,) having a projection 6' thereon to engage the recess 3'' in the lower end of the leg, may be used to allow the drier being readily moved around.

Extending into the upper end of the post 1 is a tube 7, preferably of metal, as gas-pipe, which is adapted to be moved up or down within the post 1 and held in place by a set-screw 8, which turns in a threaded hole in the collar 9, loosely supported on the upper end of the post 1. The inner end of the set-screw 8 extends loosely through a hole in the side of the post 1 at its upper end and bears at its inner end against the tube 7 to secure it in its adjusted position or in its highest or lowest position.

Upon the upper end of the tube 7 is the top 10 of the drier, which is preferably made of cast metal of circular shape, having the downwardly-extending edge 10'. (See Fig. 4.) The top 10 is preferably loosely mounted on the top of the vertically-moving tube 7 by means of a stud 11, secured at its upper end in a central recess or opening in the disk 10 and extending loosely at its lower end in the upper end of the tube 7, as shown in Fig. 4.

The top 10 has in its edge 10' a series of slots or perforations 10'' to receive the ends of the drier-sticks. The perforations 10'' extend from the lower intact edge into the upper portion of the top 10, as shown in Fig. 4.

The drier-sticks 12 are preferably made of wood of suitable length, preferably about thirty inches, and at their inner ends extend into the slots or perforations 10'' in the disk 10, as shown in Fig. 4. The inner ends of the sticks 12 have preferably on their upper edge a stop 12', (see Fig. 4,) which bears against the edge of the upper part of the disk 10, as shown in Fig. 4, and also a stop 12'' on the lower edge, which bears against the inner side of the lower part of the edge 10' of the disk 10, as shown in Fig. 4.

The end of the stick 12 is inserted into the perforation or slot 10'' at an angle to allow the lower stop 12'' to pass by the lower edge of the disk 10 and is then moved down to extend out horizontally, the upper stop 12' preventing the stick being pushed farther in

and the lower stop 12'' preventing it from being too easily removed, and thus holding it firmly in place.

Secured upon the lower end of the post 1 is a plate 13, (see Fig. 6,) which has in this instance four cup portions or recesses 13' therein to receive and support the lower ends of the sticks 12 when they are removed from the disk 10.

Upon the upper end of the post 1 is secured a plate 14, Fig. 8, having in this instance four perforations 14' therein to receive the upper ends of the sticks 12, as shown in Fig. 1. An additional plate 15, adjustably supported on the post 1 by a set-screw 16 and extending above the plate 14 and having cup portions or recesses therein corresponding to the cup portions or recesses in the plate 13, may be used to be moved down from the position shown in Fig. 1 to the position shown in Fig. 2 after the sticks 12 have been inserted to engage and hold the upper ends of the sticks, and thus prevent them from being readily removed.

The operation of my improved clothes-drier will be readily understood by those skilled in the art. After the parts are assembled in the manner above described the drier-sticks 12, or as many as are needed, are removed from their holders around the post 1 and fitted into the top 10. The top 10, with the drier-sticks 12, is then raised to the desired elevation by moving the rod 7 out of the post 1 and securing it in the desired position by the set-screw 8. When the drier is not in use, the drier-sticks 12 may be removed and grouped around the post 1 and the top 10 and rod 7 lowered, as shown in Fig. 2.

It will be understood that the details of construction of my improvements may be varied if desired.

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

1. In a clothes-drier, the combination with a tubular post, of legs or supports secured to its lower end, said legs or supports notched at their upper ends to receive a collar, and said collar, and set-screws tapped through the collar and bearing against the legs to secure them within the collar and against the post, substantially as shown and described.

2. In a clothes-drier, the combination of a post having supports secured to its lower end, and means sustained by said post for supporting drier-sticks in operative position, a horizontal plate above and adjacent to the post-supports, a second plate near the top or upper end of the post, said second plate being provided with perforations extending therethrough to receive and hold in a vertical position the drier-sticks, and a third plate adjustably supported on the post above the second plate to extend over and engage the upper ends of the drier-sticks when they are in vertical position.

3. In a clothes-drier, the combination of a



post having supports at its lower end, a rod carrying a top and adjustably supported by the post, a lower plate secured upon the post above and adjacent the post-supports, an upper plate independent of the top and secured to the post near its upper end, said upper plate having perforations within its periphery for receiving and holding the upper ends of drier-sticks, an additional plate having cup portions or recesses therein and adjustably mounted upon the post above the upper perforated plate to engage the upper ends of the sticks, and a set-screw for holding the additional plate in adjusted position.

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Witnesses:

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