

E. B. GILDERSLEEVE.  
CLOTHES DRIER.

Patented June 12, 1894.



Ralph W. Hyatt.

***INVENTOR***

BY

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# UNITED STATES PATENT OFFICE.

EZRA B. GILDERSLEEVE, OF NEW YORK, N. Y.

## CLOTHES-DRIER.

SPECIFICATION forming part of Letters Patent No. 521,368, dated June 12, 1894.

Application filed July 19, 1893. Serial No. 480,898. (No model.)

*To all whom it may concern:*

Be it known that I, EZRA B. GILDERSLEEVE, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Clothes-Driers, of which the following is a specification.

My present invention relates to clothes driers and is designed primarily as an improvement upon the drier of my former patent, No. 181,164, granted August 15, 1876.

The object of this invention is to simplify the construction of the drier by certain important changes in the form and arrangement of parts, and further, to increase the carrying capacity without materially adding to the weight of the structure.

Another object of the invention is to provide improved devices and means for securing the drier in position for use and adjusting the racks for carrying the clothes.

With these ends in view my invention consists of the peculiar construction and arrangement of parts, and details of construction, which will be fully pointed out and claimed hereinafter.

To enable others to readily understand the invention I have illustrated the same in the accompanying drawings, in which—

Figure 1, is a view partly in section of the drier in elevation, showing the same adjusted between the floor and ceiling of a room, with one of the racks folded and the other partially open, both being adjusted on the standard at positions which may be changed as desired. Fig. 2 is a horizontal sectional view on the line 2—2 of Fig. 1, and showing, in dotted lines, some of the arms extended. Fig. 3, is a vertical sectional view on the line 3—3 of Fig. 1, showing the construction and arrangement of the base-plate. Fig. 4, is a detail view of the ends of one arm and its supporting rod, and Fig. 5 is a sectional view on the line 5—5 of Fig. 1 showing a guiding clevis and a holding screw.

Referring to the drawings, in which letters of reference denote corresponding parts in all the figures, A designates the standard on which the sliding pieces *e* carrying the racks are arranged to slide, and for convenience it is made in two pieces, the upper piece being secured rigidly to the lower by clips *a* on oppo-

site sides of the standard. This standard is adapted to be firmly secured between the floor and ceiling, as shown in Fig. 1, and as a convenient means for accomplishing this end I employ the following simple devices: The lower end of the standard is provided with an opening B, in which a nut *b* is rigidly secured. A threaded bolt C is arranged in this opening and the nut therein, and it has a ball and socket connection *c*, with a base plate *c'*. The upper end of the standard is provided with a pivoted cap D having, like the base *c'*, a rubber ring or disk *d* embedded in its bearing surface to keep the standard from slipping when in position. After the standard has been placed in position it is rotated on the base *c'* and bolt C until the cap and base are firmly clamped against the ceiling and floor respectively, the loose nut *d'* being then adjusted close up against the plate *b'* to remove the strain from the nut *b*. By this means a quick adjustment of the drier can be made at any time without reference to any ordinary unevenness in the floor, as the ball and socket connection enables the base to adapt itself to any reasonable inclination, and still maintain the standard in a vertical position. On each side of the clips *a* the standard is provided with a groove *a'*, extending the entire length thereof, in which the ends of the clevises E, which carry the sliding pieces *e*, are fitted and adapted to run. A thumb screw *e'* is arranged transversely through each piece *e*, near the lower end thereof preferably, which is tightened against the standard A, when the rack and carrying piece have been properly adjusted, to hold the same in place.

The drier may be used with one rack, or with two racks, as desired, and as both racks are constructed alike it will only be necessary to particularly describe one of them.

A bow-casting F is secured near the upper end of the sliding piece *e*, on the bow *f* of which the arms *f'* of the rack are pivoted. Beneath the casting F is a similar casting G carrying the supporting rods *g* which are pivoted thereto in a suitable manner and are preferably somewhat shorter than the arms *f'*. The arms *f'* are provided with swinging rings or loops *g'* which are adapted to engage with the shoulders on the ends of the rods *g*, when they are turned as shown at *g''* in Fig.



4, or with the ends of the rods when they are provided with headed screws, as illustrated at  $g'''$  in Fig. 1. When the drier is not in use the arms and their supporting rods hang, as shown in Fig. 1, in a natural and compactly folded position, and they may be secured by a cord or ribbon to retain them in such position. The rings  $g'$  are at all times around the supporting rods  $g$ , and by simply elevating the arms  $f'$  the rings will carry the supporting rods up with them until they engage themselves with the ends of said rods, as described. The ends of the bow  $f$  are extended through the casting  $F$  far enough to carry another arm  $H$ , provided with the pins  $h$ , on which collars and cuffs may be hung, and these pins will not interfere with the proper working of the rack and other movable parts as they project only on one side of the arm, as shown in Figs. 1 and 2. To further increase the capacity of the drier I provide staples  $I$  in the lower side of the supporting arms  $g$  to which are attached individual shirt holders  $I'$ , comprising the cross piece  $i$  and the hanger  $i'$ , one of which is shown in position on an extended arm in Fig. 1.

The operation of the different parts is very simple, and the independent adjustment of the racks, when two are used, enables the drier to be secured in any position according to the necessities of the situation. The rack is distended by simply elevating the arms  $f'$  to a horizontal position, the supporting arms being carried up at the same time by the rings which afterward engage with the ends of said rods and lock the arms and rods in place. After the clothes have been arranged upon the arms the rack is raised to a convenient position and the thumb screw  $e'$  operated to secure the same in place.

I am aware that changes in the form and proportion of parts and details of construction of my invention, may be made without departing from the spirit or sacrificing the advantages thereof, and I therefore reserve the right to make all such alterations as fairly fall within the scope of my improvements.

Having thus fully 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 standard, a cap pivotally secured on the upper end thereof, a nut  $b$  rigidly secured in an opening in the lower end of the standard, a base  $c'$ , a threaded bolt  $C$  operating in said nut and opening and having a ball and socket connection  $c$  with the base, and the nut  $d'$  arranged on said bolt below the standard and adapted to be screwed up on the bolt close to the standard, substantially as and for the purpose described.

2. The combination of a standard, a piece  $e$  arranged to slide thereon, a series of arms  $f'$  pivotally connected with said sliding piece at the top thereof, a series of rods  $g$  pivoted to the piece and adapted to support the arms, and the rings  $g'$  carried by the arms to engage with the ends of the rods, when the arms are elevated, to hold them rigid, said rings being at all times around the rods and holding the rods and arms compactly folded when not in use, substantially as described.

Signed at New York, in the county of New York and State of New York, this 15th day of July, A. D. 1893.

EZRA B. GILDERSLEEVE.

Witnesses:

HERMAN GUSTOW,  
WM. O. BELT.