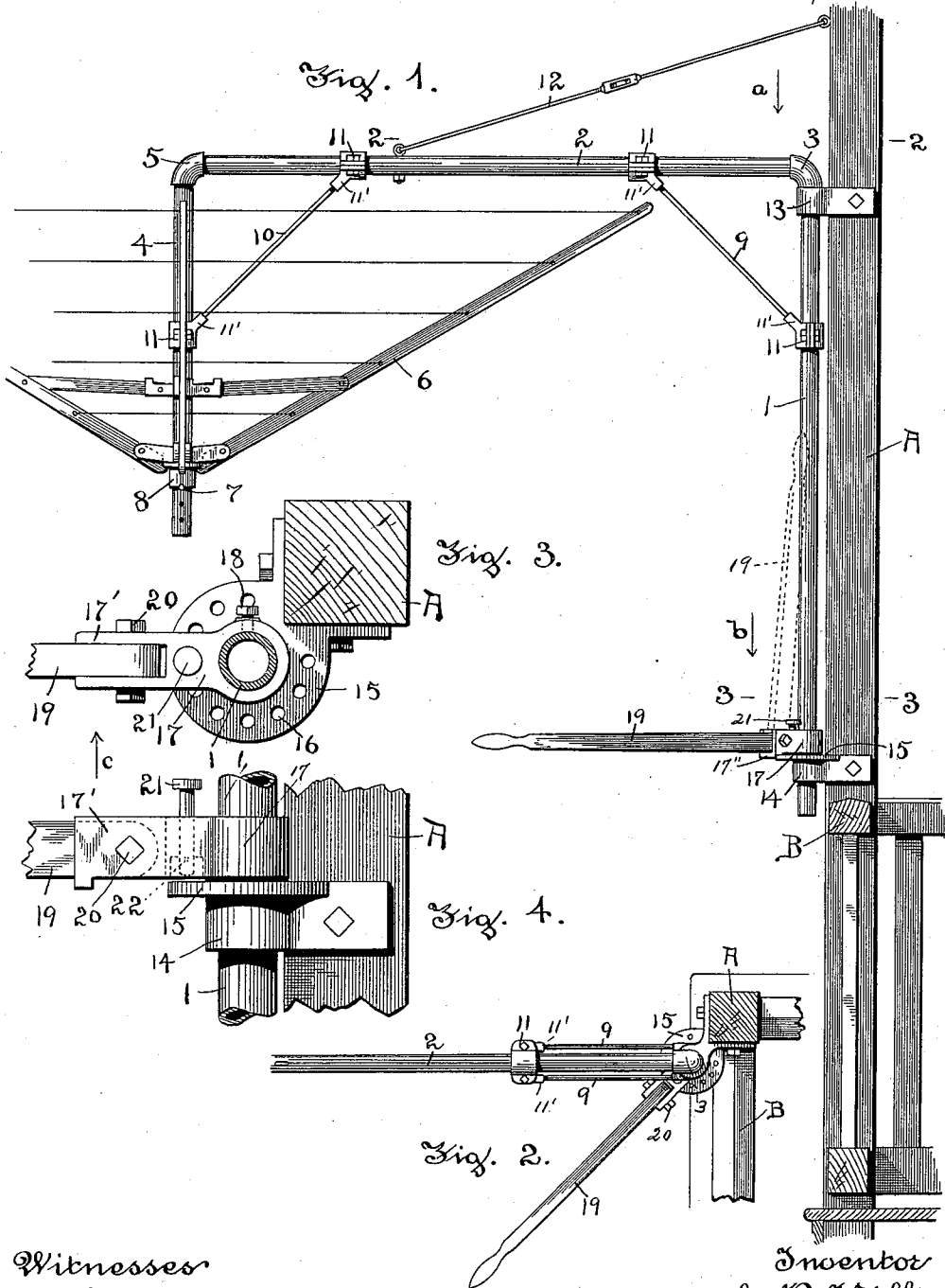


(No Model.)

J. P. HILL.  
CLOTHES DRIER.

No. 595,947.

Patented Dec. 21, 1897.



Witnesses  
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# UNITED STATES PATENT OFFICE.

JOSEPH P. HILL, OF WORCESTER, MASSACHUSETTS.

## CLOTHES-DRIER.

SPECIFICATION forming part of Letters Patent No. 595,947, dated December 21, 1897.

Application filed July 10, 1897. Serial No. 644,096. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH P. HILL, 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 more particularly to a swinging clothes-drier for a balcony or piazza of the general description referred to in my United States Letters Patent No. 544,485, of August 13, 1895; and the object of my present invention is to make a swinging clothes-drier in which the revolving reel is preferably of the same construction as shown in said patent, but said reel is supported from above instead of from below and is adapted to swing in under the roof or platform of the balcony or piazza, and means are provided for swinging or moving the reel out or in and holding it in any desired position.

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

Referring to the drawings, Figure 1 shows a clothes-drier embodying my improvements attached to a post of a balcony or piazza. Fig. 2 is a cross-section on line 2 2, Fig. 1, looking in the direction of arrow *a*, same figure. Fig. 3 is, on an enlarged scale, a section on line 3 3, Fig. 1, looking in the direction of arrow *b*, same figure; and Fig. 4 is a side view of the parts shown in Fig. 3, looking in the direction of arrow *c*, same figure.

In the accompanying drawings, A is the upright post of a balcony or piazza, to which in this instance my clothes-drier is attached. The clothes-drier proper consists, preferably, of a substantially inverted-U-shaped support comprising an upright rod 1, a horizontal rod 2, connected with the rod 1 by an elbow 3, and a vertical rod 4, connected with the horizontal rod 2 by an elbow 5. The rod 4 is preferably shorter than and substantially parallel with the rod 1 and forms the support for the revolving reel 6, which may be of ordinary construction, but is preferably of the construction and operation shown in my United States Patent No. 516,331, of March 13, 1894. The

reel 6 and its collar 8 are in this instance detachably mounted on the rod 4 and adapted to be held at different heights thereon by means of a pin 7, extending through a hole in the lower end of the rod 4. The flanged collar 8 of the reel 6 rests on the pin 7 and is held stationary thereon, in this instance by said pin extending into a slot or recess in the lower edge of the collar. (See Fig. 1.) The reel is supported and revolves on the collar 8 in the ordinary way.

To stiffen the clothes-drier frame and hold the horizontal rod 2 and vertical rod 4 in their proper relative positions, I preferably employ brace-rods 9 and 10, which may be screwed into nipples or bosses 11' on clips 11, bolted to the rods of the frame, as shown in the drawings. If desired, an additional supporting or brace rod 12 may be secured at one end to the top of the horizontal rod 2, near the outer end thereof, and at its other end to the post A above the frame, as shown in Fig. 1.

The upright rod 1 of the frame is supported to turn in bearings 13 and 14, secured in this instance to one corner of the post A. The lower end of the elbow 3 rests and turns on the upper bearing 13. The lower bearing 14 is in this instance provided with a circular portion or disk 15, made integral therewith, which is provided with a series of holes 16 therein. Above the disk 16 a collar 17 is secured to the upright rod 1 by a set screw or bolt 18. (See Fig. 3.) The collar 17 has a side extension 17', which is slotted or forked to receive the inner end of a lever or arm 19, which is pivoted in the forked extension 17' of the collar 17 by a bolt 20. A cross-bar 17'', (see Fig. 1,) connecting the two sides of the forked end 17' at their outer lower ends, forms a stop to limit the downward motion of the arm 19. By means of the pivotal attachment of the arm 19 it may be raised, as shown by dotted lines in Fig. 1, to extend in an upright position. A bolt 21 extends loosely through a hole in the collar 17 and is adapted at its lower end to extend into either hole 16 of a series of holes in the plate 15. A pin 22, extending through the lower end of said bolt 21, limits the downward motion of said bolt and also prevents the bolt being raised out

of the collar 17, said pin engaging with the inner end of an opening or recess in the under side of the collar 17, as shown in Fig. 4.

By means of the arm 19 the rod 1 is turned 5 and the frame and reel swung in or out, as desired, and by means of the locking-bolt 21 the reel is held in its extreme outward position, or in its inward position, or in any intermediate position, as desired, the bolt 21 10 being raised by the operator to disengage the lower end thereof from the holes 16 in the plate 15, and then the arm 19 moved until the frame and reel are in the desired position, when the bolt 21 is released and drops into 15 one of the holes 16 in the plate 15, to hold the frame and drier and prevent the same from swinging.

Instead of the plate 15, with holes 16 therein, and the movable bolt 21 to lock the reel 20 and frame in position any other well-known equivalent means may be employed.

The advantages of my clothes-drier will be readily appreciated by those skilled in the art.

It is of very simple construction and operation, and ordinary gas piping or tubing may 25 be used from which to make the frame, and the reel being suspended from above may be swung in over the rail B of the balcony or piazza to bring it entirely within the balcony 30 or piazza, which cannot be done in the case of a reel supported from below, as is shown in my Patent No. 544,485, above referred to.

It will be understood that the details of construction of some of the parts of my clothes- 35 drier 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 40 two supporting-brackets, of an inverted-U-shaped support pivotally mounted therein, one of the legs of the support being provided with means for engaging with the upper bracket to prevent downward movement, 45 means upon said leg for engaging with the lower bracket to control the pivotal movement of the support, and a reel mounted upon

the other leg of the support, substantially as set forth.

2. In a clothes-drier, the combination, with 50 supporting-brackets, one of which is provided with a circularly-arranged series of stops, of a support pivotally secured within the brackets, a collar secured to the support adjacent to said bracket, a catch in the collar for engaging with the stops in the bracket, a handle 55 pivotally secured to the collar, and a reel upon the support, substantially as set forth.

3. In a clothes-drier, the combination, with supporting-brackets, one of which is provided 60 with a circularly-arranged series of holes, a support pivotally secured within the brackets, a collar upon the support adjacent to said bracket, the under side of which is provided with a recess, a pin through the collar, the 65 lower end of which is within the recess, a pin through the lower end of the first-mentioned pin and within the recess, the projecting portion of the first-mentioned pin being adapted to enter either one of the holes in the bracket, 70 a set-screw in the collar, a lever pivotally secured to the collar, and a reel upon the support, substantially as set forth.

4. In a clothes-drier, the combination, with supporting-brackets, of a support pivotally 75 mounted therein, the free end of which extends downward and is provided with openings, means for locking said support against pivotal movement, a flanged collar upon the free end of the support, the lower end of 80 which is provided with notches, a pin through the end of the support, the ends of which engage with the notches of the collar and prevent its rotation, and a reel loosely mounted upon the collar and the end of the support, 85 whereby it may be adjusted vertically and be partially held against rotation by its engagement with the flange of the collar, substantially as set forth.

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