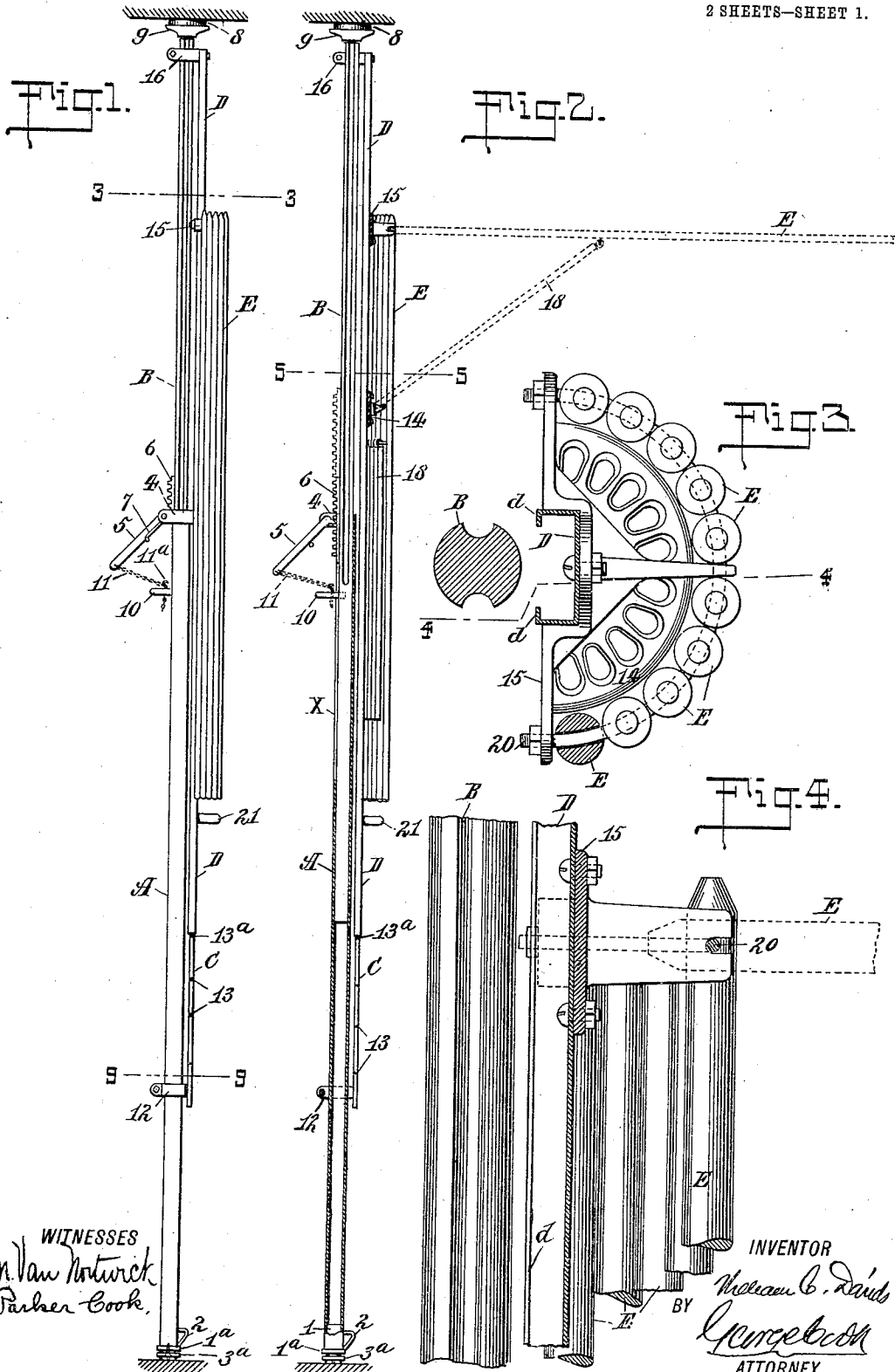


W. C. DAVIDS.
CLOTHES DRIER.
APPLICATION FILED NOV. 19, 1908.

931,917.

Patented Aug. 24, 1909.

2 SHEETS—SHEET 1.

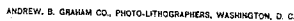


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2 SHEETS—SHEET 2.



UNITED STATES PATENT OFFICE.

WILLIAM C. DAVIDS, OF RUTHERFORD, NEW JERSEY.

CLOTHES-DRIER.

931,917.

Specification of Letters Patent. Patented Aug. 24, 1909.

Application filed November 19, 1908. Serial No. 463,445.

To all whom it may concern:

Be it known that I, WILLIAM C. DAVIDS, a citizen of the United States, and a resident of Rutherford, in the county of Bergen and State of New Jersey, have made and invented certain new and useful Improvements in Clothes-Driers, of which the following is a specification.

My invention relates to an improvement in clothes driers, the object of the same being to provide a device of this character which shall be adapted for use in any part of a house or room, which shall be portable, simple and economical in construction, efficient in use, and which may be folded up in small compact form for shipment or storage.

A further object of the invention is to produce a clothes drier which shall be adjustable to the height of any room, and wherein the swinging rack may be raised to any desired height in order to occupy the highest and hottest portion of the room, and at the same time be out of the way of people passing in or about the room.

With these and other ends in view, the invention consists in certain novel features of construction and combinations of parts, as will be hereinafter fully described and pointed out in the claims.

In the accompanying drawings Figure 1 is a view in side elevation of my improved device, the rack being shown in its folded adjustment. Fig. 2 is a sectional view thereof. Fig. 3 is a sectional view taken on the line 3—3 of Fig. 1. Fig. 4 is a sectional view taken on the line 4—4 of Fig. 3. Fig. 5 is a sectional view taken on the line 5—5 of Fig. 2. Fig. 6 is a sectional view taken on the line 6—6 of Fig. 5. Fig. 7 is a sectional view taken on the line 7—7 of Fig. 8. Fig. 8 is an enlarged sectional view of a portion of the device showing the manner of raising and lowering the rider. Fig. 9 is a sectional view taken on the line 9—9 of Fig. 1. Fig. 10 is a sectional view of the upper portion of the top rod with its swiveled fastening. Fig. 11 is a view partly in elevation and partly in section of the lower end of the tube with its attached lower swiveled fastening. Fig. 12 is a sectional view of a portion of the rider and guide, showing the manner of holding the former in its several different positions.

The support or standard for holding the drier in position, comprises a tube or pipe A, preferably made of metal and having a

slot X in the rear thereof, in the bottom of which tube is contained a wooden plug 1 tightly fitting therein and held in place by means of a bent wire pin 2 driven through the tube A into the plug 1. The lower end of the wooden plug is flanged as shown at 1^a (Fig. 11), and rests against the extreme lower end of the tube A, and to this plug is rotatably secured by means of the screw 2^a, the lower fastener 3 in the form of a circular plate provided with lugs or teeth 3^a, in order that the tube may be securely held to the floor and at the same time capable of being rotated in either direction.

Into the tube A is fitted the top or extension rod B, preferably made of wood and of such length that when the drier is in position and the upper and lower ends of the standard fitted against the ceiling and floor, practically the lower half thereof will extend downwardly in the tube, this for the purpose of imparting to the device strength, stiffness and rigidity. To the upper end of this top or extension rod B is secured a head or fastener comprising a wooden head 9 rotatably secured to the top of the rod B by means of the screw 9^a, the upper surface of said head 9 being provided with an elastic ring or disk 8 preferably of rubber, in order to act as a cushion against the ceiling to prevent the marring of the latter when the standard is locked in position between the ceiling and floor.

In order to raise the extension rod B to its proper height when securing the same in operative position, I provide a handle 10, one end of which is securely fastened in the rod B and the outer end extending through the slot X formed in the tube A, as clearly illustrated in Figs. 1, 2 and 8.

At or near the top of the tube A is secured the clamp 4 by means of the bolts 4^a, the clamp being preferably formed in two sections, as illustrated in Fig. 7, the heads of the bolts being received in the grooves 4^b formed in opposite sides of the extension rod B. Between the separated ends of the clamp 4 is contained the hub 4^c of the lever 5, said hub being provided with a finger 5^a adapted to engage with a rack 6 screwed or otherwise secured to the extension rod B and projecting out through and beyond the slot X formed in the tube A.

By reason of this construction and arrangement of parts, it will be understood that after the extension rod B has been

raised by the handle 10 until the head 9 impinges against the ceiling, the lever 5 is then pressed downwardly, causing the finger 5^a to force upwardly the rack 6 and with it the extension rod B, and thereby cause said rod and tube to exert sufficient pressure against the ceiling and floor as will hold it in its upright position. When the lever is pressed downwardly to the proper extent, it is held in its adjustment by means of the chain 11, one end of which is secured to the lower end of the lever 5, and at or near its opposite end, passed over the hook 11^a secured to the handle 10.

When it is desired to remove the drier, the chain 11 is released from the hook A and the lever 5 thrown upwardly by means of a spring 7 secured to the clamp and passing below said handle or lever 5, as illustrated in Figs. 7 and 8.

To the rear side or ends of the clamp 4 is secured the guide C, preferably made of wood and of channel-shape, upon which the slide or rider D travels, as hereinafter described, the lower end of said guide C being held in place by the clamp 12, to which said guide is secured, and which passes around the tube A, the lower end of said guide being provided with holes or openings 13 for the reception of a pin 13^a upon which rests the rider D, and held thereby in its different vertical adjustments, as illustrated in Fig. 12. The rider D is also preferably made of wood and rectangular in shape, provided with flanges *d* whereby to prevent the same from becoming detached from the guide C, as illustrated in Fig. 7.

Upon the front face, and near the lower end of the rider D is securely fastened a handle 21, employed for raising or lowering said rider to its proper position. To the top of the rider D, and securely bolted to the inside face thereof, is a guide clamp 16 which passes freely around the extension rod B for retaining said rider in its vertical position.

Below the upper end of the rider D and securely bolted to the front face thereof, is a bracket or support 15, to which is attached a bent wire 20, on which latter are strung or mounted the drying arms E, preferably ten in number, and which when in their folded adjustment, hang vertically, as illustrated in full lines, Figs. 1 and 2, but which may be raised to their horizontal positions, as illustrated in dotted lines in Fig. 2, when the device is in use.

About midway the length of each of the arms E, and on the underside thereof, is pivoted a brace rod 18, the lower ends of the latter engaging in openings formed in a cast iron step 14, when the parts are in their operative position, as illustrated in dotted lines in Fig. 2, said step 14 being bolted or otherwise secured to the front face of the

rider D. When, however, the device is to be folded, the lower ends of the brace rods 18 are released from the step 14, thereby permitting both the rods E and braces 18 to hang in a vertical position, as illustrated in full lines, Figs. 1 and 2.

When the device is to be put into use, it is locked in its vertical position against the ceiling and floor of the room by raising the extension rod B by means of the handle 10, until the upper and lower ends rest against said ceiling and floor. The lever 5 is then lowered to bind the standard tightly and rigidly in place, the several parts being held in their proper adjustment by means of the chain 11 passed over the hook 11^a on the handle 10. The drying arms E are then raised to their horizontal positions, the lower ends of the brace rods being properly placed in the openings in the iron step 14. After the clothes or articles to be dried, have been hung on the arms E, the rider D with its attached rack, is then raised by means of the handle 21 until it is elevated to its desired position, that is, near the ceiling where the room is hottest, and where by reason of the elevation, the articles hanging on the rack will least inconvenience persons passing in, out or around the room. After the rider has been raised to the desired height, the pin 13^a is inserted in the proper opening 13 in the guide C, the lower end of said rider resting thereon, the whole device being capable of being rotated between the upper and lower fastenings, as before described.

From the foregoing it will be understood that the invention is exceedingly simple in construction and strong and durable in use, the standard composed as it is of telescoping tube and extension rod, being strong and rigid and capable of withstanding any strain which might be imposed upon it. Furthermore, the several parts are cheap to manufacture, and may be easily and readily assembled, the device as a whole, being capable of being folded into a small, compact parcel for shipment or storage.

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

1. A clothes drier of the type described, comprising a telescoping tube and extension rod, each provided on its outer ends with rotating heads for securing them between the ceiling and floor, means for locking the same in their different adjustments, a stationary guide secured to said tube, a rider loosely connected with said extension rod and traveling on said guide, and a folding rack secured to said rider, substantially as described.

2. In a clothes drier of the character described, the combination with a slotted tube, of an extension rod fitting in said tube and moving vertically therein, and provided with

a rack extending through the slot in said tube, a lever engaging with said rack for raising and lowering said extension rod, and means for holding the latter in its different positions, a guide securely fastened to said tube, a rider loosely secured to said extension rod and traveling on said guide, means for holding said rider in its different vertical adjustments, and a folding rack secured to said rider, substantially as described.

3. In a clothes drier of the type described, the combination with a slotted tube, an extension rod fitting in said tube and provided with a rack extending through said slot, a lever for engaging said rack and adapted to hold said extension rod in its different positions, a guide clamped to said tube and provided with a series of openings, a rider loosely clamped at one end to said extension rod and fitting over said guide, a pin adapted to be contained in the perforations in said guide and upon which rests the lower end of said rider, and a folding rack secured to said rider, substantially as described.

4. A clothes drier of the type described, comprising a telescoping tube and extension rod, and means for raising and lowering the latter and holding it in its several positions, a guide clamped to said tube, a rider loosely clamped to said extension rod and traveling

on said guide, and means for holding said rider in its different positions, said rider having secured thereto a casting provided with a curved or bent wire, arms strung on said wire and adapted to be held in their horizontal positions by brace rods pivoted at their upper ends to said arms and adapted to engage with a step secured to said rider, substantially as described.

5. A clothes drier of the type described comprising a slotted tube provided on its lower end with a rotating head, an extension rod fitting in said tube and provided with a rack projecting through said slot, said rod being provided on its upper end with a rotating head, a lever clamped to said tube and having a finger engaging said rack, a spring bearing on said lever for raising the same, a guide securely clamped to said tube, a rider traveling on said guide and having a folding rack secured thereto, substantially as described.

Signed at New York, borough of Manhattan, in the county of New York, and State of New York, this 18th day of November, A. D. 1908.

WILLIAM C. DAVIDS.

Witnesses:

M. VAN NORTWICK,
PARKER COOK.