(No Model.)

W. A. WALDRON.

CLOTHES DRIER.

No. 343,555. Patented June 8, 1886.

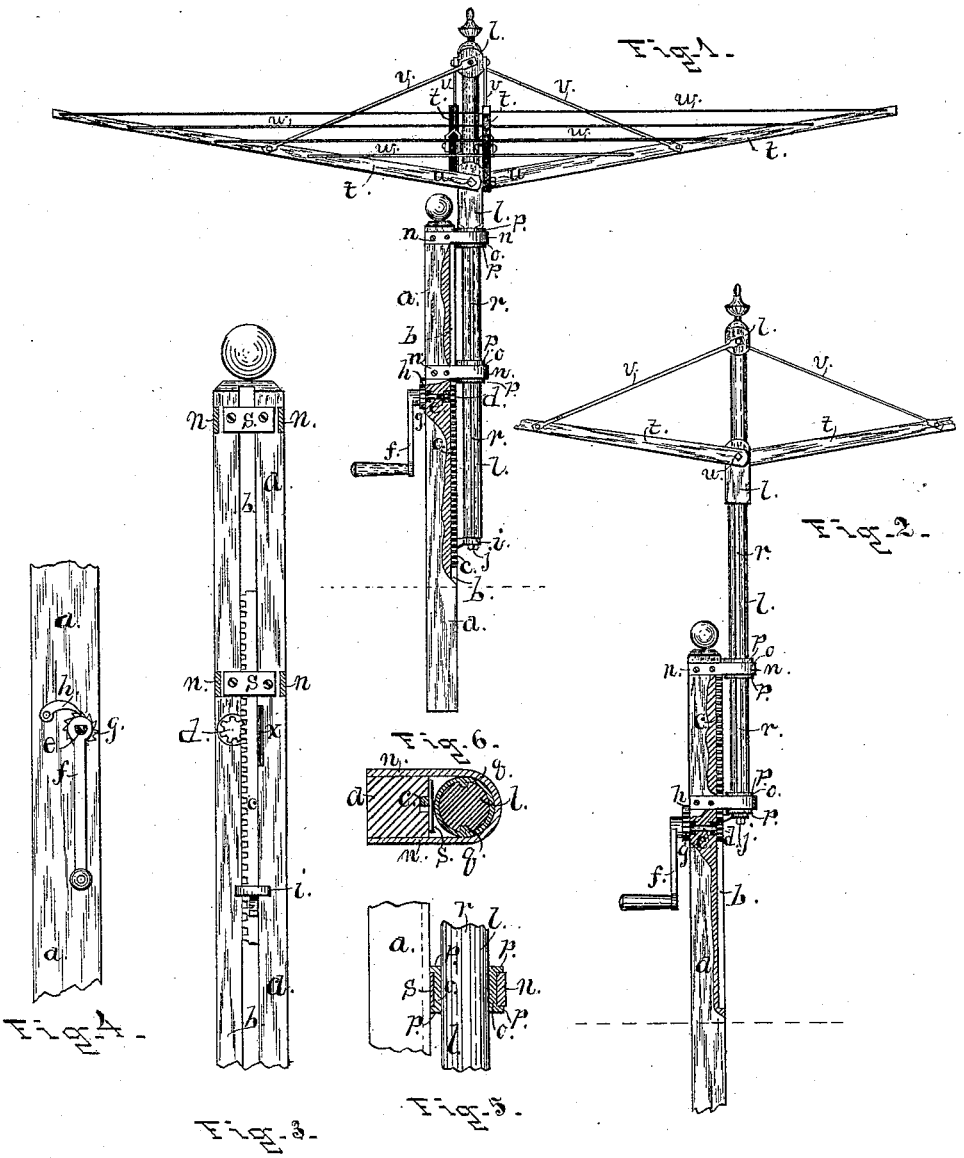

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

ATTEST:

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UNITED STATES PATENT OFFICE.

WILLARD A. WALDRON, OF BAY CITY, MICHIGAN, ASSIGNOR OF ONE-HALF TO JOSEPH S. JULIEN, OF SAME PLACE.

CLOTHES-DRIER.

SPECIFICATION forming part of Letters Patent No. 343,555, dated June 8, 1886.

Application filed August 14, 1885. Serial No. 174,382. (No model.)

To all whom it may concern:

Be it known that I, WILLARD A. WALDRON, a citizen of the United States, residing at Bay City, in the county of Bay and State of Michigan, have invented certain new and useful Improvements in Clothes-Driers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to clothes-driers of the class used for drying clothes in the open air; and it consists, chiefly, in the combination, arrangement, and construction of a stationary post properly sustained in a vertical position and a movable post carrying outward-extending arms, and line stretched from one to another of the arms for supporting the clothes, the movable post being connected with and supported by the stationary post in such a manner that it may be revolved and also moved vertically, in order to raise or lower the outstretched arms and line and bring the same to a convenient position for easily hanging the clothes thereon or removing the same therefrom, and to raise the clothes to a proper height, and thereby allow a freer contact with the air and avoid the danger of brushing the clothes, when drying, against the ground, grass, &c.; and the objects of my invention are to provide a strong and durable device for drying clothes, which may be easily handled and operated, and one that may be cheaply constructed. I accomplish these objects by means of the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of my improved device, partly in section, and in a position for hanging on or removing the clothes. Fig. 2 is a view of the same in an elevated position, as when the clothes are drying. Figs. 3 and 4 are detached and enlarged views of the stationary post. Fig. 5 is a view of a portion of the posts enlarged and the connecting parts, partly in vertical section. Fig. 6 is a horizontal section of the same.

Similar letters refer to similar parts throughout the several views.

a represents a post of suitable size, supported in a vertical position by being placed into the ground or by other proper means, and is provided in one side with a groove, *b*, running nearly its entire length. Within this groove *b* is placed a rack, *c*, the teeth of which bear against the side of the groove and intermesh with the pinion *d*, which is suitably placed in a recess arranged in the post, and is attached to a shaft, *e*, which extends through and beyond the post, and is provided on its outward-extending end with a crank, *f*, and with a ratchet-wheel, *g*, located between the crank and post. A pawl, *h*, is pivoted to the post and arranged to engage with the ratchet *g*, or be held away from such engagement.

Near the lower end of the rack *c*, and extending outward from and rigidly secured to the same, is the step *i*, and with its lower end resting on this step *i* and with its upper end extending to some distance above the post *a* is placed the post *l*, and is held in position by the bolt *j*, passing through the step *i* and into the lower end of the post *l*, and by the U-shaped straps or bands *n*, passed around the post *l*, and with their extended ends secured to the opposite sides of the post *a*.

Encircling the post *l*, and beneath the bands *n*, are placed the sleeves *o*, provided with the outward-extending flanges *p* on their upper and lower edges, which flanges reach over the edges of the bands *n* and serve to hold the sleeve in its position beneath the band, and with the inward-projecting portion *q* resting in the grooves *r*, which are arranged in the opposite sides of and lengthwise of the lower portion of the post *l*, and which admits of a vertical movement of the post *l* within the sleeve, and causes the sleeve to revolve, together with the post, to prevent contact of the sleeves with the post *a*. The plates *s* are placed on the post *a* between the projecting portions of the bands, and they also serve to hold the rack *c* in position within the groove *b*.

At some distance below the upper end of the post *l* are secured the inner ends of the outward-extending arms *t*, a bolt, *u*, passing through the arms and post, and they are also held in a proper position and supported by the brace-rods *v*, having one end secured to the upper end of the post *l*, and the other end, ex-

tending outward, is bolted to the arm *t*. Near its central part a cord or wire, *w*, is passed from one arm to another, upon which the clothes are to be hung for drying. On one side of the groove *b*, and at a point opposite the pinion *d*, a plate of metal, *x*, is let into the post *a*, and so arranged that one side of the plate will be flush with the side of the groove, and the pinion, operating to raise the rack *c*, pushes the rack against this plate *x* in such a manner that the plate will receive the wear of the moving rack and prevent the wearing away of the wooden side of the groove. The post *l* being brought to the position shown in Fig. 1, the clothes are hung upon the lines *w*. The crank *f* is then operated and the post elevated to the position shown in Fig. 2, the post sliding through the sleeves *o*, which also revolve with the post when the post and arms *t* are revolved. The post *l* is held in this elevated position by the pawl *h* engaging with the ratchet-wheel *g*, and the post may be again lowered by disengaging the pawl from the ratchet and operating the crank *f*, to avoid a sudden descent until the shoulders *y* rest upon the upper sleeve *o*.

Having fully described the construction and operation of my improved device, what I claim as my invention, and desire to secure by Letters Patent, is—

1. In a clothes-drier, the stationary post *a*, provided with the groove *b*, a rack, *c*, placed within the said groove and provided with the step *i*, a pinion, *d*, engaging with the said rack, the shaft *e*, the crank *f*, the ratchet *g*, and pawl *h*, in combination with the post *l*, resting upon the said step *i*, the bolt *j*, passing through the step and into the end of the post, and the bands *n*, passing around the said post *l* and secured to the post *a*, substantially as and for the purpose set forth.

2. In a clothes-drier, the stationary post *a* and the movable post *l*, placed vertically beside of and extended above the said post *a*, and provided with the extended arms *t* and lines *w* and the grooves *r*, in combination with the sleeves *o*, having the inward-projecting parts *g*, adapted to slide within the said grooves *r*, and the outward-projecting flanges *p*, and the straps *n*, passed around the said sleeve, and having their ends secured to the post *a*, substantially as and for the purpose set forth.

3. In a clothes-drier, the post *a*, having the groove *b* and a rack, *c*, within the groove and provided with a step, *i*, the post *l*, secured to the step and extending above the said post *a*, and the sleeve *o*, surrounding the said post *l*, and having the flanges *p* and the straps *n*, passed around the said sleeves and with their ends secured to the post *a*, in combination with the plates *s*, secured to the said post *a* between the extended parts of the straps and adapted to hold the rack in position, substantially as and for the purpose set forth.

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

WILLARD A. WALDRON.

Witnesses:
J. E. THOMAS,
JOS. L. JULIAN.