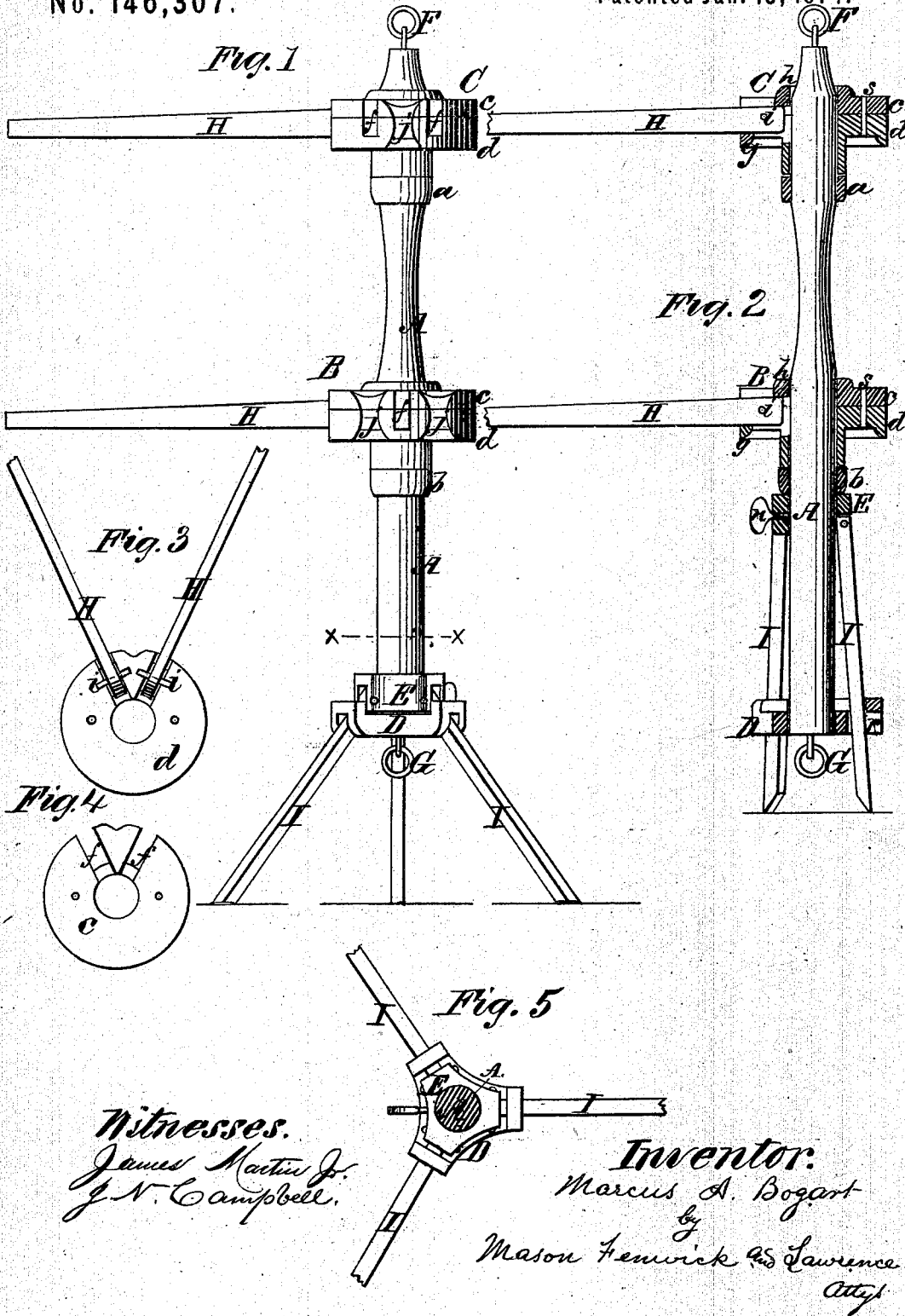


M. A. BOGART.

Revolving and Folding Clothes-Driers.

No. 146,307.

Patented Jan. 13, 1874.



Witnesses.
James Martin Jr.
J. N. Campbell.

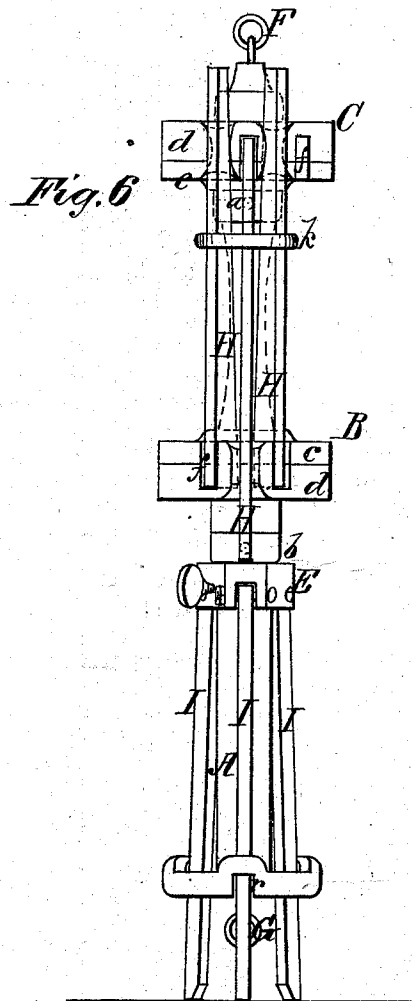
Inventor:
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UNITED STATES PATENT OFFICE.

MARCUS A. BOGART, OF DELHI, NEW YORK.

IMPROVEMENT IN REVOLVING AND FOLDING CLOTHES-DRIERS.

Specification forming part of Letters Patent No. **146,307**, dated January 13, 1874; application filed November 1, 1873.

To all whom it may concern:

Be it known that I, MARCUS A. BOGART, of Delhi, in the county of Delaware and State of New York, have invented a new and useful Improvement in Revolving and Folding Clothes-Driers; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings making part of this specification, in which—

Figure 1 is a side elevation of a clothes-drier constructed according to my invention; a portion only of the arms is shown in the hubs. Fig. 2 is a vertical section of the same, it being shortened in length by sliding its legs upon the central post. Fig. 3 is a top view of the lower half of the hub, which holds and supports the arms. Fig. 4 is an inverted view of the upper half of the said hub. Fig. 5 is a horizontal section in the line *xx*, looking downward. Fig. 6 is an elevation of the clothes-drier fully folded to be hung up or put away.

My invention consists, first, in hubs which support the arms, constructed in two halves, the line of division being horizontal, and with peculiar matching-slots and supporting-shoulders, in combination with arms provided with pivots, on which they can turn when the arms are secured in the hubs. It consists, second, in constructing each of the pair of hubs with notches in their circumference, at points between the slots of the arms, and having the upper one of the pair capable of being reversed, so that the arms of one hub may be folded down and passed in the notches of the lower hub, and the arms of the other hub folded up and passed in the notches of the other hub, and thus the arms of both hubs are folded snugly in a vertical, or in nearly a vertical, position within a space only as long as the length of one set of arms. It consists, third, in the slotted supporting-bracket on the lower end of the post, in combination with sliding hinged legs, whereby the legs can be moved up alongside the post when the clothes-drier is not in use, or is used suspended, and also may be moved down and held expanded when the clothes-drier is tied down upon a board or the floor. It consists, fourth, in the combination of lower holding-down ring with the post and sliding legs of the clothes-drier, whereby facili-

ties for tying the apparatus down are afforded, and thus the legs assisted in holding it in an upright position against winds and shocks.

To enable others skilled in the art to understand my invention, I will proceed to describe its construction and operation.

A is a central post; B, the lower hub; C, the upper hub; and D, the bracket for the legs—all fitted around the post. The hubs are set upon circular collars or shoulders *a b* of the post, and revolve freely around the post upon these collars. The bracket D is fastened permanently to the post. E is a collar, fitted upon the post so as to slide up and down between the collar *b* and the bracket D. F is an upper ring, and G a lower ring, attached to the respective ends of the post. The ring F serves as a means by which to suspend the clothes-drier from the ceiling or other elevated position, and the ring G as a means by which to tie the clothes-drier down to the floor, or upon a board in the yard or room. When the drier is suspended the legs are slipped upward to shorten it, and when it is tied down the legs are lowered, and serve to support it. Each of the respective hubs is made of horizontal disks *c d*. The disk *c* of the upper hub is slotted on its circumference radially, as shown at *f f*. Matching slots are formed in the lower halves of the hubs. Thus slotting the hubs forms a lower support, *g*, and an upper support, *h*, for the arms H, when set into the hub, as shown in Fig. 2 of the drawings, and therefore the arms are supported when in a horizontal position in rear of and above, and also in front of and below, the pivot-pins *i*, on which they swing when adjusted upward. The halves of the hubs are pinned together, as shown at *s*, upon the journal ends of the pins *i* of the arms, said journal ends lying down in and fitting up in half-cylindric cavities formed in the matching faces of the halves of the hubs, as shown in Fig. 3. The upper hub is capable of being inverted, and, in connection with this inversion of the upper hub, I employ the notches *j j*, between the slots *f f*, in both of the hubs, to receive the upper ends of the lower set of arms H and the lower ends of the upper set of arms, these notches allowing the arms to fold parallel, or almost parallel, with the post A, as shown in Fig. 6. When

thus folded, a rubber band, *k*, is slipped around both sets of arms, and said arms are held securely in position thereby. The legs *I I* are slipped up through *L*-shaped slots *r* in the angular bracket *D*, and pivoted, by their upper ends, to the slotted collar *E*, as shown. It will be observed that the side and upper portion of the metal inclosing the *L*-shaped slots *r* of this bracket stay the legs laterally, and so press upon the legs when they are spread that these legs are prevented from spreading too far apart, and their pivots are saved from strain. The collar is provided with a clamping-screw, *n*, by which it is retained after the legs are adjusted to the position shown in Fig. 2. The hubs, bracket, and collar are made of cast metal, and are hollowed out and channeled, as shown, so as to give lightness and neatness of appearance to the same.

I am aware that arms and legs of clothes-driers have been applied to brackets in such a manner that their pivotal supports have been relieved by contact of the inner ends of the arms and legs with the surfaces of the brackets in rear of said pivotal supports; but I am not aware that this has been done both in rear and in front of the pivots, nor at all in clothes-driers where the arms have been simply perforated with a round hole to receive a round pin through them—that is, where the arms have not been made with oblong and oblong-angular slots. I am also aware that hinged legs attached to a sliding-collar bracket have been devised; but I am not aware that a sliding collar, in combination with a stationary compressing and supporting bracket, which dispenses with lateral braces or levers, has ever been used. I further am aware that arms

on pairs of hubs have been employed; but I am not aware that the hubs were divided so as to confine the pivots of the arms, and thus avoid slotting the arms, and one of the hubs (viz., the upper hub) made reversible for the purpose of folding the arms, as shown in Fig. 6. I do not claim anything shown in the patents of Elliott Dickerman, dated August 20, 1861, Wm. H. Earnest, September 3, 1867, and N. F. Mathewson, dated September 24, 1872; but

What I claim as new, and desire to secure by Letters Patent, is—

1. The revolving hubs *C B*, for supporting the arms *H* of a revolving clothes-drier, made of two disks, *c d*, which are slotted in the manner shown, and pinned together upon the pivots of the arms, as specified, all for the purpose set forth.

2. The upper hub *C*, carrying hinged arms *H*, and made reversible, and notched, as at *j*, between the slots which receive the arms, in combination with the lower hub *B*, carrying hinged arms *H*, and notched in the same manner as at *j*, for the purpose described.

3. The bracket *D*, constructed as shown, and applied on the lower end of the post *A* of a revolving clothes-drier, in combination with the sliding collar *E* and hinged legs *I*, as herein described, for the purpose set forth.

4. The combination of the lower ring *G* with the post *A* and sliding hinged legs *I* of a revolving clothes-drier, in the manner and for the purpose herein described.

MARCUS A. BOGART.

Witnesses:

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