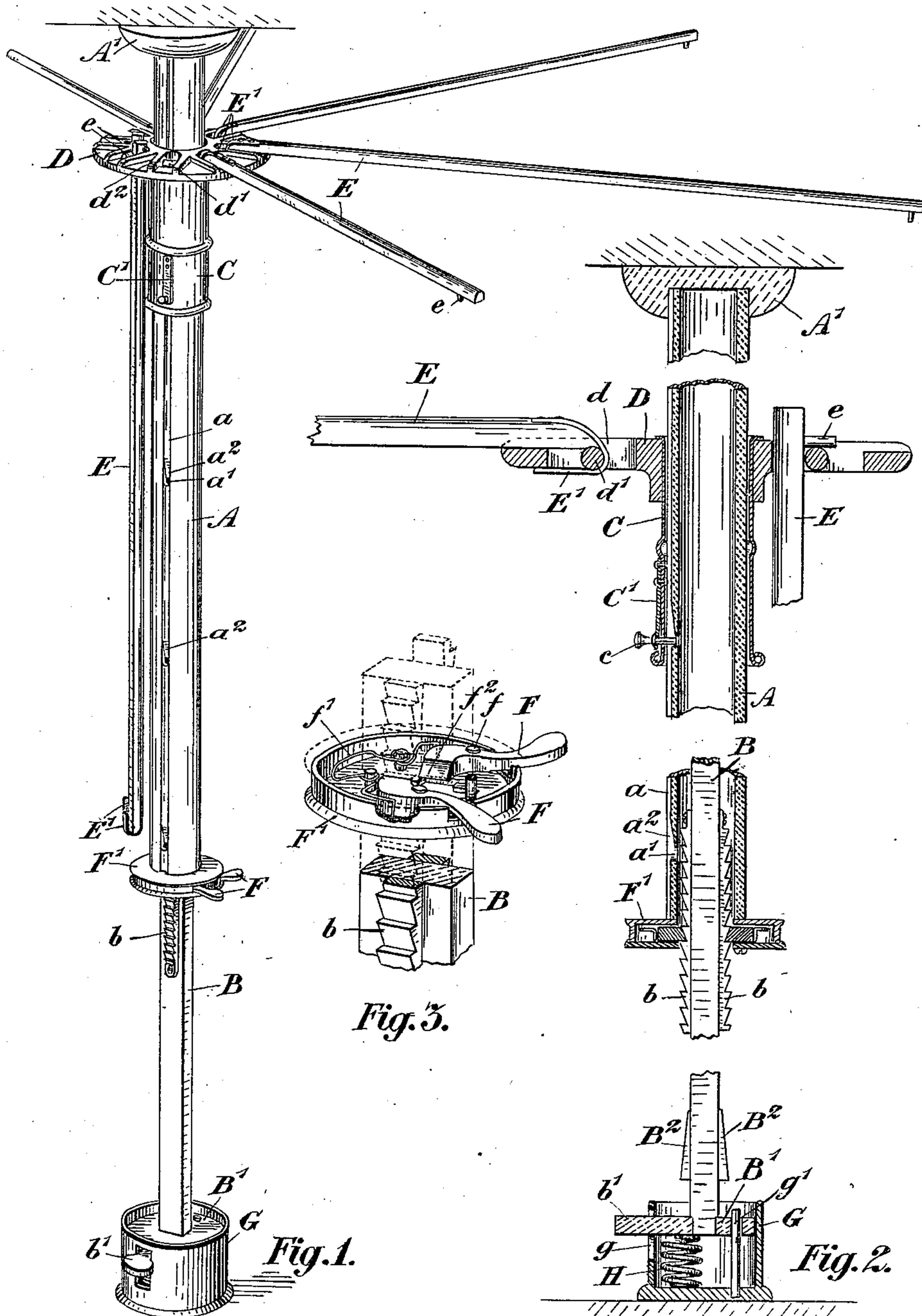


(No Model.)

E. J. DOWNEY.  
CLOTHES DRIER.

No. 561,210.

Patented June 2, 1896.



Witnesses.

W. W. Throw  
E. R. Case

Inventor.

Edward John Downey  
by F. H. Sturges & Co.  
attys



# UNITED STATES PATENT OFFICE.

EDWARD JOHN DOWNEY, OF GUELPH, CANADA.

## CLOTHES-DRIER.

SPECIFICATION forming part of Letters Patent No. 561,210, dated June 2, 1896.

Application filed June 3, 1895. Serial No. 551,431. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD JOHN DOWNEY, carpenter, residing at the city of Guelph, in the county of Wellington, in the Province of Ontario, Canada, have invented certain new and useful Improvements in Clothes-Driers, of which the following is a specification.

My invention relates to improvements in clothes-driers; and the object of the invention is, first, to provide a simple and rigid support for the arms which will permit of them being readily extended and thrown back close to the post when not in use, and, secondly, to provide a simple and effective means for fastening the post of the drier rigidly in between the ceiling and the floor; and it consists, essentially, first, of a circular disk provided with a plurality of radiating-openings with pivotal pins formed therein, and constructing the several arms with hooked ends designed to grasp the pivot-pins and hold the arms in position, pins being also inserted in the ends of the arms, so as to retain the ends in the openings when moved to the vertical position, and, secondly, of making the upper portion of the post hollow and the lower portion solid and providing such portion with side racks, which are designed to coact with dogs secured to the bottom of the hollow portion, the bottom of the post having secured to it a disk which fits within a socket and is supported by a spring or springs, the remaining portion of the drier being constructed as hereinafter more particularly explained.

Figure 1 is a perspective view of a clothes-drier constructed in accordance with my invention, part of the arms, however, being removed, part shown out, and part shown down. Fig. 2 is a longitudinal section intermediately broken away at three points. Fig. 3 is a detail of the coacting dogs and ratchet-rack.

In the drawings like letters of reference indicate corresponding parts in each figure.

A is the hollow portion of the post, and B the solid portion. The hollow portion A has secured to it a sleeve C, to which is secured a disk D, provided with several openings  $d$ , having pins  $d'$  extending across them, as shown. The edges of the openings are provided with ribs  $d^2$ .

E are the arms. Each arm has a hooked end  $E'$  secured to it, which when the arm is

in the horizontal position extends around the pivot-pin  $d'$  and underneath the outer edge of the opening. In this position it is held perfectly rigid and is capable of supporting any suitable weight of clothes.  $e$  is a pin formed on the outer end of each arm E, and designed when the arm is thrown up and let drop into the vertical position to retain the end of the arm in the opening  $d$ . The ribs  $d^2$ , hereinbefore mentioned, serve to prevent the arm from moving laterally.

The top of the hollow portion A of the post is provided with a cap  $A'$ , with a flat top.

The portion A has a groove  $a$  extending throughout its length, which is provided with holes  $a'$ , having a bevel  $a^2$  extending into them from the top.

The sleeve C is provided with a spring  $C'$ , having a pin  $c$  in its end. The pin  $c$  is designed to fit into the holes  $a'$  made in the groove  $a$ , and by withdrawing the pin and releasing it the sleeve, and consequently the arms, may be raised to any desired position to dry the clothes, the pin passing over the beveled edges  $a^2$  of the hole  $a'$ . When the pin is withdrawn and released and the sleeve brought downwardly, it will of course be seen that the pin will drop into the first hole that it reaches and support the sleeve and arms in the corresponding position.

$b$  are racks formed at each side of the solid portion B of the post, and F are dogs pivoted at  $f$  in the inclosed collar  $F'$ , secured to the bottom of the hollow portion A. The dogs F are held by the spring  $f'$ , so that their inner ends have an inward pressure. The ends  $f^2$  of the dogs are arranged with their sharp ends down. The rack  $b$  is arranged as shown. The bottom of the portion B is secured in a disk  $B'$ , which has an outwardly-extending end  $b'$  extending through a slot  $g$  in the socket G, in which the disk  $B'$  fits.  $g'$  is a guiding-pin extending up through the disk  $B'$ , and H is a spiral spring or springs of sufficient strength to support a considerable weight.

$B^2$  are stops beveled at the top and square at the bottom. When it is desired to throw the drier into as compact a form as possible, the dogs are opened by pressing the outer ends together and the bottom of the post brought down, so that the dogs come underneath the stops  $B^2$ .



In order to place the drier in position, the hollow portion of the post is elevated upon the solid portion B, the dogs slipping over the rack *b*. When the flat top reaches the ceiling, the end *b'* of the disk B' may be pressed downwardly and the outer ends of the dogs pressed together, so as to release them, when the rack *b* may be brought farther down in relation to the dogs, and the dogs F then released. They will now spring into the teeth of the rack, and the pressure of the spring will thus hold the post from end to end securely in position from ceiling to floor.

I claim—

1. In combination in a clothes-drier, the post, the disk secured thereto provided with a series of openings, the pins extending across said opening, the arms being adapted to rest upon the face of the intact portion of said disk and being provided with hooks detachably engaging said pin, said hook being adapted to bind against the under side of said intact portion for holding said arms in horizontal position.

2. In combination, the post A, having the flat top, the post B sliding therein, the rack carried thereby, the dog engaging said rack, the socket G, the spring for pressing the flat top of said post A against the ceiling, and the lever for depressing said spring, substantially as described.

3. The combination with the portion, A, having a flat top, A', of the portion, B, extending into the same and having the rack, *b*, secured at both sides thereof and the spring-pressed dogs, F, pivoted within the closed collar, F', and designed to engage with the rack and the disk, B', secured to the bottom of the portion, B, fitting within the socket, G, and having an outwardly-extending end, *b'*, projecting through a slot, *g*, in the socket and the springs, H, all arranged as and for the purpose specified.

EDWARD JOHN DOWNEY.

Witnesses:

C. C. COLLINS,  
J. R. DOWNEY.