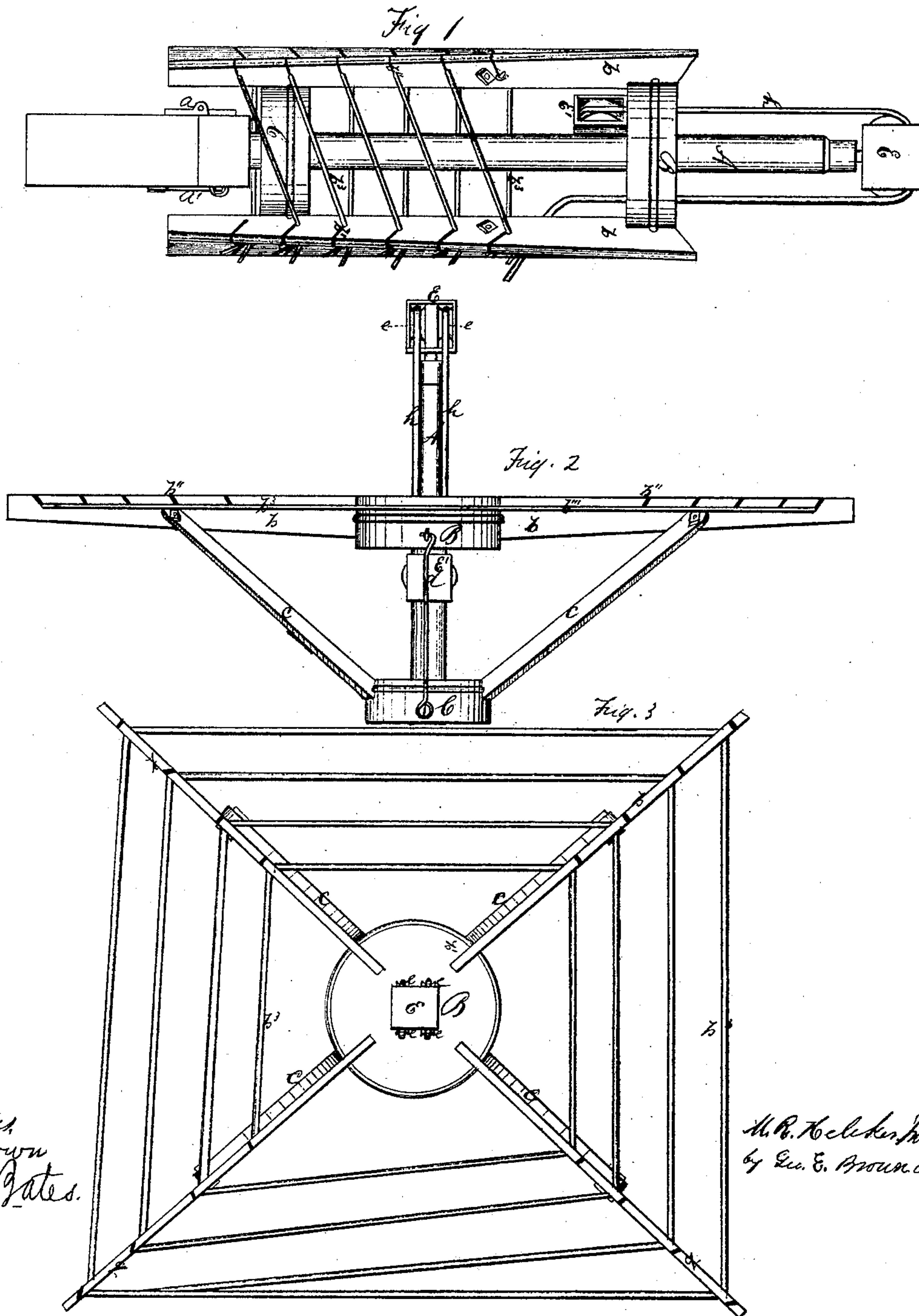


*M. R. Heliker,*

*Clothes Drier.*

*No. 94,822.*

*Patented Sept. 14. 1869.*



*Witness  
C. O. Brown  
Jas. H. Gates.*

*M. R. Heliker Inventor.  
by Geo. E. Brown Atty.*



# United States Patent Office.

MARTIN R. HELIKER, OF NORWALK, OHIO, ASSIGNOR TO HIMSELF  
AND RICHARD G. ELLIOTT.

Letters Patent No. 94,822, dated September 14, 1869.

## IMPROVED CLOTHES-DRIER.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, MARTIN R. HELIKER, of Norwalk, in the State of Ohio, have invented a new and useful Improvement in Clothes-Driers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and letters of reference marked thereon, making a part of this specification, in which—

Figure 1 is a side elevation of the drier, with its arms folded down against the standard;

Figure 2 is a side elevation of the drier, with the arms spread out; and

Figure 3 is a plan view of the same.

To enable those skilled in the art to make and use my invention, I now proceed to describe its construction and operation.

Similar letters in the drawings refer to like parts.

This invention consists of a hub, in the periphery of which are pivoted four or more radial arms, that may be extended to form the clothes-drier, or folded up, in combination with a second or smaller hub, in which are pivoted the ends of four or more radial braces that support the aforesaid arms, and are movable, like them, both hubs being placed one above the other, upon a vertical post passing through their centres, upon which post they slide freely, being moved by pulleys on the top of the post, connected with a pulley in the upper hub by a cord, in such manner that the hubs and arms may be raised or lowered upon the post, to suit the convenience of the operator, said post having a joint in it, by which to turn it down, and said hubs and arms being capable of folding together very compactly, whether remaining in the post or removed from it.

In the drawings—

A is a vertical post, set in a foot-piece or in the ground, and as high as it may be desired to elevate the clothes the post is intended to sustain. The post is made in two or more parts, divided crosswise, the parts being hinged together, as seen at *a*, and having a hook and staple on the side opposite the hinge, as seen at *a'*.

B is a wooden or metal hub, having an orifice at the centre, by means of which the hub is placed upon the post A, and having four or more gains, *b*, cut into it radially, in which gains are pivoted, in any convenient

manner, the ends of arms *b*, the latter being made of any desired length, and so inserted in the hub as to be capable of folding downward toward the foot A, and having any required number of slanting notches, *b''*, at uniform intervals, in their upper edges, said notches ending in circular holes, made crosswise of the arms, in which holes is placed the cord *b'*, upon which the clothes are hung.

C is a second and smaller hub, placed upon the post A, below the hub B, and having radial gains, *c*, in which are pivoted the ends of braces *c*, the opposite extremities of which are jointed to the arms *b*. The braces are arranged to fold inward toward the post, the hub C sliding down to enable them to do so.

Hooks *d d*, pivoted at their lower ends to the outside of the hub C, fasten, at their upper ends, into eyes in the periphery of the hub B, and serve to fasten the two hubs at the necessary distance apart to keep the arms *b* extended and the cord *b'* taut.

In the top of the post A is a metallic socket, into which extends a pin on the lower end of a block, E, containing a pair of sheaves, *e e*, which block is rotatory upon its pin in the socket.

To the underside of the hub B is attached another block, E', containing a single sheave.

A cord, *h*, is attached firmly by one end to the hub B, passes thence over one of the sheaves *e*, through a hole in the hub B, under the sheave in the block E', up through a second hole in the hub B, over the other sheave *e*, and down through a third hole in the hub, whence a sufficient length of the cord depends for raising and lowering the drying-apparatus by the aid of the pulleys.

The arms *b* may be folded compactly down upon the post A, or the hubs, arms, and pulleys may be removed entirely from the post, and folded by themselves, for convenience in packing.

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

The combination of the hubs B C, arms *b*, braces *c*, jointed post A, blocks E E', and cords *h b'*, all constructed and arranged to operate as set forth.

MARTIN R. HELIKER.

Witnesses:

C. B. STICKNEY,  
J. A. WILKINSON.