



# UNITED STATES PATENT OFFICE.

DANIEL HEFFNER, OF GERMANTOWN, OHIO, ASSIGNOR TO ENOS HEFFNER, OF SAME PLACE; SAID E. HEFFNER ASSIGNOR OF TWO-THIRDS HIS RIGHT TO M. W. MARKER, OF SAME PLACE, AND DANIEL J. CLARK, OF LIBERTY, OHIO.

## IMPROVEMENT IN CLOTHES-DRIERS.

Specification forming part of Letters Patent No. 184,206, dated November 7, 1876; application filed August 4, 1876.

*To all whom it may concern:*

Be it known that I, DANIEL HEFFNER, of Germantown, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Clothes-Driers; and I do hereby declare the following to be a full, clear, and exact description of the same:

The nature of my invention consists in the construction of a clothes-drier, as hereinafter more fully set forth.

To enable others skilled in the art to which my invention appertains to make and use the same, I would thus proceed to describe it, referring to the accompanying drawing, in which the figure represents a front elevation of my improved drier.

For use in the house I provide any suitable stand, A, which has an opening in its top to admit the bottom of the post B, which is stepped in it and is free to revolve. Near the bottom of the post (which in section is square) are pivoted four arms, C, of equal length, each being pivoted to a face of the post. Extending from a block, D, mortised and free to slide up and down upon the post, are four bars or ribs, D', of equal length, and pivoted in the block, and to each of the arms C respectively. By sliding the block up and down, the arms C are closed and opened like an inverted umbrella. A pin, *a*, passed through various apertures in the post over the block, serves to keep the arms at different degrees of extension, though a thumb-screw through the block would do as well. A single clothes line or cord, *b*, is used, being passed through openings in the arms C around and back again, as represented, until it assumes the appearance of the ordinary parallel cords. Each end of the line is secured by knotting, or in any conven-

ient way. The advantage of this arrangement is that the cord can always adjust itself to the arms C, and will be equally stretched at all points, whereas, by the old method, one cord may be shrunken while the other is stretched. This would have the effect of straining and warping the arm C, and would render the whole device worthless.

It will be seen, with my invention, that the lower end of each main arm C is pivoted directly to the square portion of the upright B, and that the inner ends of the supplemental bars D' are pivoted to the sliding block D. By this construction of parts the drier will have a natural tendency to be in open condition for use, or, in other words, open itself by gravity of the parts.

In clothes-driers, where the main arms are connected to a collar which slides on the standard, it oftentimes requires considerable labor to spread the arms out to hang the clothes upon the cords. My invention obviates this as well as the use of pulleys for the operating-cord to pass over.

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

The combination of the main arms C, pivoted directly to the standard B, the supplemental arms D', the gravitating block D, and the continuous cord *b*, all constructed substantially as and for the purposes herein set forth.

Witness my hand this 22d day of July, A. D. 1876.

DANIEL HEFFNER.

Witnesses:

ADAM MCCALLAY,  
ADAM FRANK.