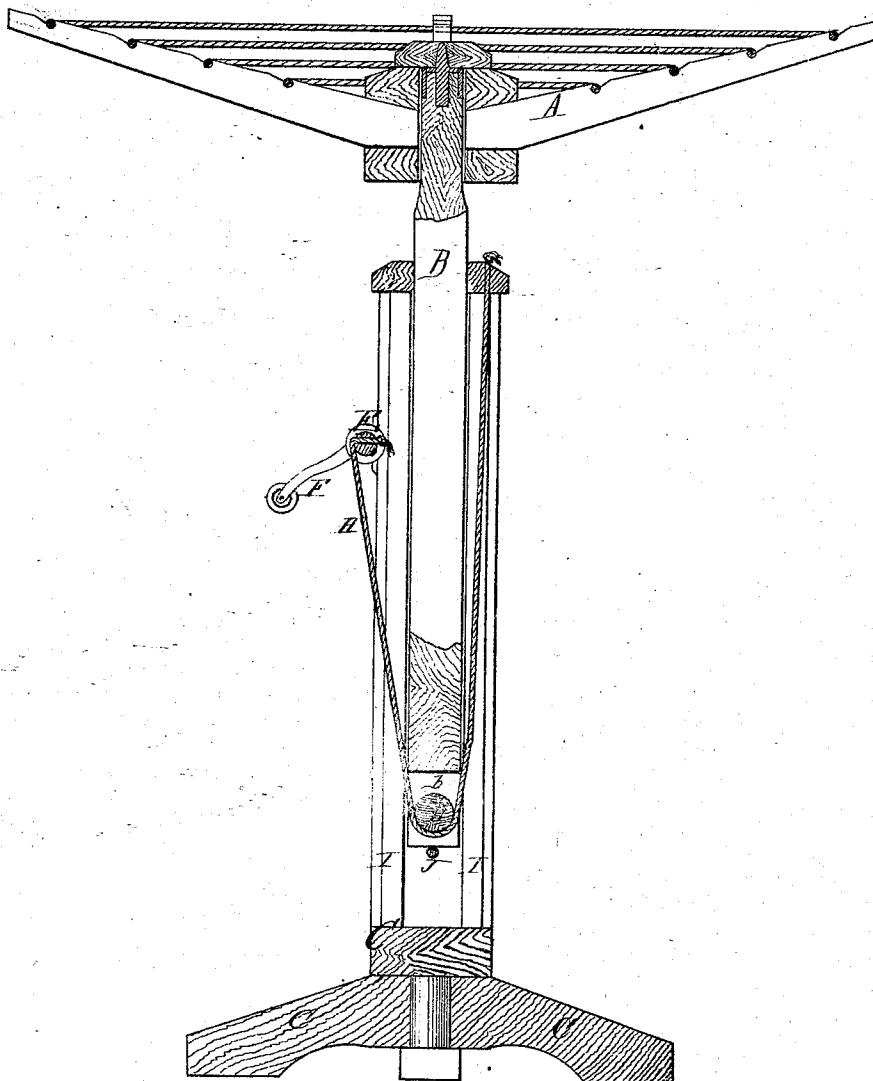


O.H.HARDING & D.G.WILLIAMS. CLOTHES DRIER.

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PATENTED JUL 25 1871



Witnesses.

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UNITED STATES PATENT OFFICE.

ORRIN H. HARDING AND DANIEL G. WILLIAMS, OF QUINCY, MICHIGAN.

IMPROVEMENT IN CLOTHES-DRIERS.

Specification forming part of Letters Patent No. 117,414, dated July 25, 1871.

To all whom it may concern:

Be it known that we, ORRIN H. HARDING and DANIEL G. WILLIAMS, of Quincy, in the county of Branch and State of Michigan, have invented a new and valuable Improvement in Clothes-Driers; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a vertical section of our invention.

This invention has relation to an improved clothes-drier; and consists in the construction and novel arrangement of devices designed for the purpose of raising and lowering the reel on which are stretched the lines that hold the articles to be dried.

In the accompanying drawing illustrating this invention, A designates the reel, arranged to revolve horizontally on the top of the post B, which slides vertically within the hollow frame C. *b* represents a recess cut in the lower end of the post B. D represents a pulley-wheel journaled within said recess. E represents a cord-drum or pulley journaled to brackets on the outside and near the top of the frame C, and provided with a crank-arm, F. H designates a cord or chain which passes around underneath the pulley D, and has one end secured to the top of the frame C and the other end to the drum E. I are vertical slots, through which the cord H passes, cut in the frame C. J represents a pin adapted to

a number of transverse holes cut in the frame C, and designed for the purpose of sustaining the post B at any desired height.

The post B is raised to elevate the reel A by turning the crank F, so as to wrap around it the cord H. When the pin J is removed the reel and post descend by their own weight.

The frame C may be either inserted in the ground or secured to a supporting-sill or foot-piece, C'. It is obvious that the frame may be taken from its pedestal at will, and housed from rain and other storms. We find it desirable thus to remove it for the preservation of the drying apparatus, as well as to keep the pulley D and its journals from oxidization and unnecessary exposure.

We do not claim, broadly, the standard nor the windlass, for we are aware they may be found in other devices; but

We claim as our invention—

The clothes-drier herein described, consisting of the hollow post C with its windlass, the rope H, and removable sliding post B having the pulleys D in its foot and supporting the reel A, substantially as shown and described.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

ORRIN H. HARDING.
DANIEL G. WILLIAMS.

Witnesses:

GEO. B. KNIGHT,
WILLIAM H. PRATT.