J. SIMMONS.

CLOTHES-DRIER.

No. 193,132. Patented July 17, 1877.

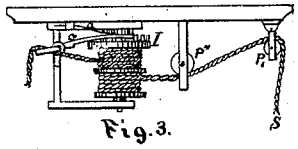
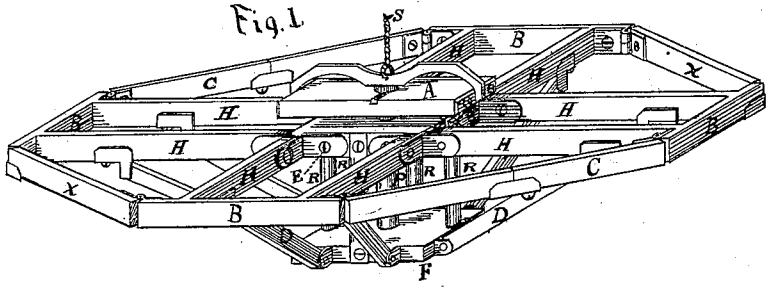


Fig. 3.

Fig. 1.



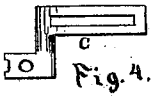
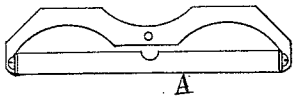


Fig. 4.



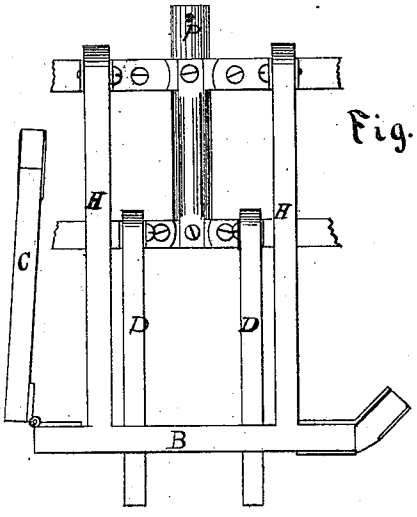


Fig. 2.

Witnesses.

Charles A. Penwick

Edward A. Renwick

Inventor.

Joseph Simmons

By Taggart Simonds & Fletcher

attys

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JOSEPH SIMMONS, OF COOPERSVILLE, MICHIGAN.

IMPROVEMENT IN CLOTHES-DRIERS.

Specification forming part of Letters Patent No. **193,132**, dated July 17, 1877; application filed April 6, 1877.

To all whom it may concern:

Be it known that I, JOSEPH SIMMONS, of Coopersville, in the county of Ottawa and State of Michigan, have invented a new and useful Clothes-Drier, which is fully set forth in the following specification and accompanying drawings.

Figure 1 is a perspective view of my invention, showing the drier in proper form for receiving the clothes to be dried. Fig. 2 shows a side view of the drier when folded. Fig. 3 shows the device for raising and lowering the drier; and Fig. 4, a detached lever and pawl, which is shown in Fig. 3 by C.

The object of my invention is to furnish a folding clothes-drier to be supported by a rope or cord, so arranged as to be attached to the ceiling of the room and raised or lowered at pleasure.

In Fig. 1, E and F represent two square blocks, firmly attached together by means of four short rounds or bars, R R R R, which together form the foundations or frame-work of the drier.

The piece E supports the arms of the drier and F the braces which uphold the arms when the drier is in position for receiving the clothes.

The arms H H H B C are hinged to the piece E, so as to be dropped down in pairs, as shown in Fig. 2, the ends of each pair of arms being attached together by the bars B B and C. Between each set of arms, at their outer ends, is a connecting-bar. (Shown in Figs. 1 and 2 by X.) The bars C are hinged at one end to the connecting-bar B, and when the drier is opened or raised the other end rests in a socket on the end of the connecting-bar on the next pair of arms. Instead of hanging C at one end, as above described, it may be hinged at each end and constructed so as to open from a socket at its middle, being in two parts, as shown by C in Fig. 1. When the frame of the drier is folded, C assumes the position shown in Fig. 2.

D D D D are braces hinged to the lower piece F, so as to be raised or lowered. When the arms of the drier are raised, these braces engage with notches on the under side of the arms, holding them firmly in the position shown in Fig. 1, and when the frame is folded they drop into the position shown in Fig. 2.

Passing through the center of E and F is the bolt P, which is firmly attached, by any suitable means, to the handle A, which is constructed to receive the cord S, as shown. P is provided with a head at its lower end, so that it cannot draw through F, and fits loosely through E and F, so that the frame will revolve easily upon it.

The cord S passes upward from the drier over pulley P′, and beneath pulley P″, and around the roller. The roller is provided with a ratchet-wheel, I, and pawl C. A cord is wound around the upper part of the roller, and through an opening in an extended part of the pawl, which forms a lever.

The pawl may be held against the ratchet by means of a spring, or may be so constructed that its own weight will engage it with the ratchet by pulling upon the cord which passes through the bar. The pawl is raised from the ratchet, and the drier may be raised, and by loosening the cord the pawl will immediately engage with the ratchet, thereby allowing the frame to be put at rest at any required point. When the frame is unfolded it forms an octagon, and not only the arms, but also the bars B B and C C, and braces D D, &c., may be used in supporting the clothes.

By removing the bolt P the drier may be placed upon a standard provided for that purpose, and thereby be used to good advantage out of doors.

Having thus described my invention, what I claim to have invented, and desire to secure by Letters Patent, is—

The body or frame-work composed of the blocks E and F, attached by means of the rounds R R R R, in combination with the hinged arms H H, bars B B, and hinged bars C C C C, and supporting-braces D D D D, all constructed and arranged as described.

JOSEPH SIMMONS.

Witnesses:
HENRY FERGUSON,
LYMAN B. CLOUD.