

W. Price,

Clothes Frame,

N^o 15,521.

Patented Dec. 20, 1864.

Fig. 1.

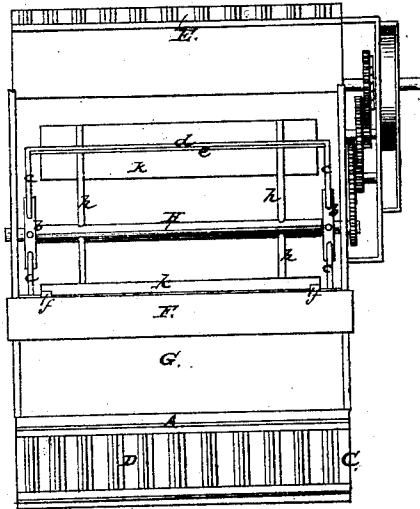


Fig. 2.

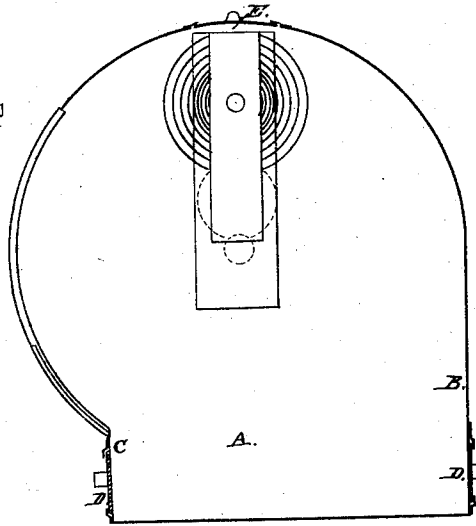


Fig. 3.

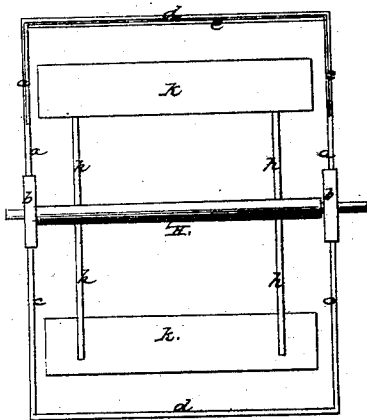
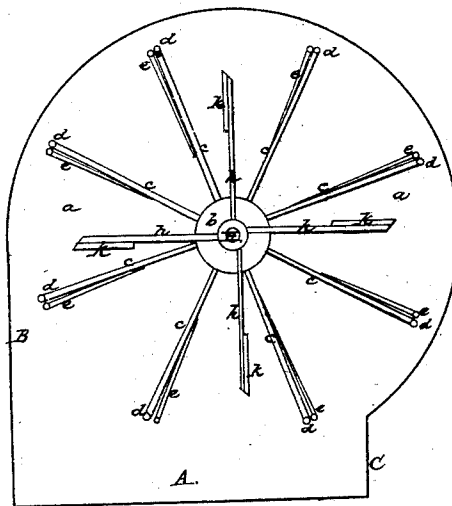


Fig. 4.



Witnesses:

E. H. Morrison

D. H. Croft

Inventor.

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By Attorney J. B. Woodruff.

UNITED STATES PATENT OFFICE.

WILLIAM PRICE, OF CINCINNATI, OHIO.

IMPROVED CLOTHES-DRYING MACHINE.

Specification forming part of Letters Patent No. 45,521, dated December 20, 1864.

To all whom it may concern:

Be it known that I, WILLIAM PRICE, of Cincinnati, in the county of Hamilton, in the State of Ohio, have invented a new and useful Apparatus or Machine for Drying Clothes Directly from the Wash; 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, making a part of this specification, in which—

Figure 1 represents a front view of the apparatus with the sliding shutter open, showing a portion of the internal mechanism and clock-work. Fig. 2 shows an external side view of the cylinder-drier. Fig. 3 is a section through the center across and longitudinal with the fan-blower. Fig. 4 shows a section across the clothes-holders and fans.

The object of my invention is to lighten the labors of the laundry and enable families and washer-women to dry clothes in all weather without hanging them out and exposing them to the dust and soot, so prevalent in most towns and cities, while it prepares them speedily in a proper condition for ironing immediately after the wash, a great saving of time and labor.

My invention consists in the construction and arrangement of a series of radiating-frames, they being so formed as to admit the clothes being easily attached to them on and around the surface through a door or opening in a cylinder which surrounds it, in combination with a rotary or fan blower operating in the center by clock-work or any other power, so that a current of dry or heated air is distributed through and among the clothes.

To enable others skilled in the art to make and use my invention, I will describe it more fully, referring to the drawings and to the letters marked thereon.

For family use I make my drying-room in a portable form, of such dimensions as desirable. The case or outside may be of tin, zinc, or sheet galvanized iron, the form being mainly cylindrical, as shown in Fig. 2, it having a base, A, and an upright portion, B, at its rear, and a corresponding parallel surface, C, in front, to which are ventilators D D, which may be opened or closed by corresponding slides. There may also be other ventilators, one on the top, E, so that the heated or dry

air which enters at the bottom may escape at the top, carrying the dampness from the wet clothes with it.

In the drying cylinder or room is placed the rotating reel or clothes-frame *a a*, the arms *c c c* being secured in hubs or flanges *b b*. There may be any desired number of them, they being so constructed that they will hold the clothes on the bars *d d d* by pressing a small portion in between the stationary and yielding bar *e e e*, thus dispensing with lines and clothes-pins.

The mode of putting the clothes into the drier is to let them pass from the wringer into the pan or trough F, which is made with hooks *ff*, to hitch onto the sliding door G when opened. The wet clothes are then in close proximity to the bars on the rotating reel *a a*. Then take a dull table-knife or other thin substance like a paper-folder and press in between the bars *d* and *e* such portions as are necessary. Then turn the reel up, and other arms and nipper-bars will present themselves, which the articles can be secured to in like manner until the frame is covered. The trough F is taken off and the sliding door closed. In the center of the cylinder or drying-room I place a shaft, H, it having arms *h h h h*, radiating on the ends of which are fans *k k k k*, similar in construction to the ordinary wheat-fans. This may be put in motion and operated by clock-work with a spring or weight, or be turned by hand or any other convenient or stationary power.

For large hotels, boarding-houses, and public laundries there may be a room or cylinder of sufficient dimensions. The reel or clothes frame may be placed in a vertical position with series of arms and clothes holders. The fan-blower may also be in a vertical position, or the heated dry air may be conveyed into the room through pipes. The reel or clothes-frame may also revolve slowly in the room or cylinder and bring the clothes into a current of dry or heated air. Thus by a few moments' exposure in the drier they are in just the right condition for ironing, which can all be accomplished immediately after the clothes are washed and wrung out, so that washing, drying, and ironing may all be done the same day in any weather at all seasons of the year without the exposure of hanging

out or the risk of clothes being torn or blown off or covered with the dust or soot so annoying in most places.

Having thus fully described my invention, its mode of construction and operation, what I claim as new, and desire to secure by Letters Patent, is—

1. The construction and arrangement of a cylindrical apparatus, the same having a series of ventilators with sliding covers to admit and regulate the circulation of dry or heated air for the purpose of drying clothes, as herein described.

2. A series of radiating frames, they being

constructed with double yielding rods or bars, so as to admit the clothes being easily attached to them, for the purposes herein set forth.

3. A rotary clothes frame, in combination with a fan-blower, so that a current of dry or heated air is distributed through and among the clothes, substantially as and for the purposes herein specified.

WILLIAM PRICE.

Witnesses:

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