

R. PILKINGTON.
Centrifugal Clothes-Driers.

No. 149,519.

Patented April 7, 1874.

FIG. 1.

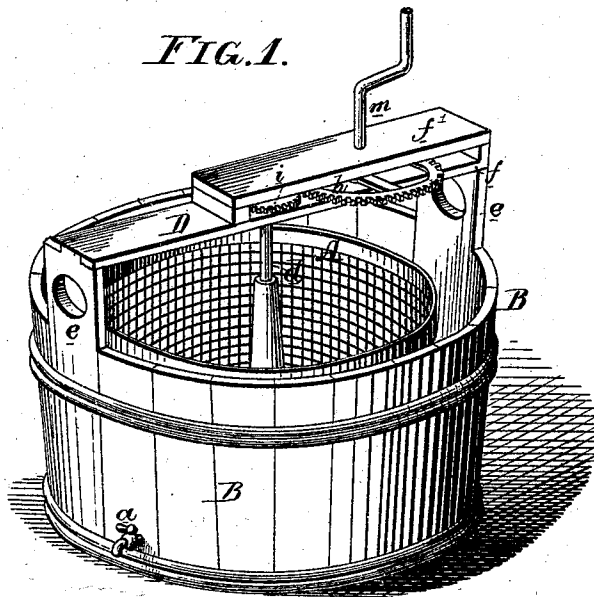
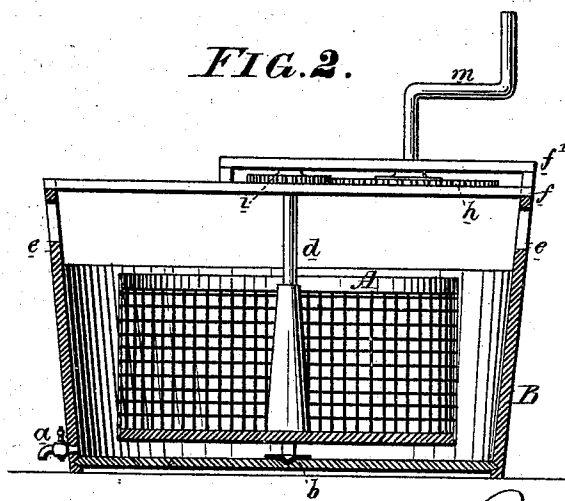


FIG. 2.



*Robert Pilkington
 by his Attys
 Howers and Son.*

*Witnesses:
 J. H. M. S. S. S.
 Harry Smith*

UNITED STATES PATENT OFFICE.

ROBERT PILKINGTON, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO
HIMSELF AND EPHRAIM F. LEAKE, OF SAME PLACE.

IMPROVEMENT IN CENTRIFUGAL CLOTHES-DRIERS.

Specification forming part of Letters Patent No. 149,519, dated April 7, 1874; application filed
December 13, 1873.

To all whom it may concern:

Be it known that I, ROBERT PILKINGTON, of the city and county of Philadelphia, State of Pennsylvania, have invented a Centrifugal Clothes-Drier, of which the following is a specification:

My invention relates to an improvement in that class of clothes-driers in which a rotary cage or strainer is combined with a tub; and the main object of my invention is the ready adaptation of the rotary strainer and its driving appliances to, and their ready withdrawal from, the tub, by adapting the cross-bar or frame D to the handles of an ordinary wash-tub in the manner shown in the perspective view, Figure 1 of the accompanying drawing, and in the vertical section, Fig. 2, this arrangement of the cross-bar possessing the further advantage of affording ample room for the introduction of the clothes into, and for their withdrawal from, the strainer A. B is an ordinary wash-tub, which can be readily adapted to the strainer and its appliances by simply providing it with a spigot, *a*, and with a central stud, *b*, forming a step for the conical lower end of the central vertical shaft *d*, to which is attached the strainer A, the latter consisting of a basket composed of wire-netting, perforated plates, or any suitable system of slats, which, while retaining the wet clothes, will permit the free discharge of water therefrom into the tub. I avail myself of the ordinary handles *e* of a wash-tub as a medium for receiving the attachment, which consists of a frame, D, extending across the tub and notched at the opposite ends, so as to fit snugly over the handles. The vertical shaft *d* has its upper bearing in the upper and lower bars of the frame, and between the bars the shaft is furnished with a pinion, *i*, into which gears the teeth of the wheel *h* on a shaft which has its bearings in the frame, and which is furnished with a suitable handle, *m*.

It is not essential that cog-wheels should be used as a medium for driving the straining-basket, as pulleys and a band or friction-wheels may be used for the same purpose. Whatever driving devices are used, however, I prefer to

place them between the two bars *f* and *f'* of the frame in the manner shown, so that the frame will prevent the entanglement of the clothes with the said driving mechanism.

When put in operation, the straining-basket and the frame which carries it can be at once adjusted to the tub and the wet clothes placed in the basket, after which a comparatively few turns of the handle will cause the main body of water with which the clothes are saturated to be discharged from the basket against the interior of the tub, whence the water may be drawn from time to time through the spigot *a*. The strainer may be employed for facilitating other washing operations; for instance, it is usual after shirts and other clothing have been washed in hot water to soak them for a considerable time in cold water, so as to deprive them of the suds with which they are more or less impregnated. The clothes instead of being thus soaked in the usual manner may be placed in the basket, which is caused to revolve in a supply of cold water contained in the tub, so that all suds will be extracted from the clothing in a comparatively short time.

By fitting the frame to the handles of the tub ample space is afforded between the edge of the tub and the frame for the introduction of clothes into, and their withdrawal from, the strainer.

I do not desire to claim, broadly, the combination, with a vessel, of a rotary strainer attached to a spindle which revolves in a cross-bar extending across the vessel; but

I claim as my invention—

The wash-tub B and the frame or cross-bar D, adapted to the handles of the said tub in the manner set forth, in combination with the strainer A, driven by gearing on the said frame, and detachable from the tub with the same, all as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ROBERT PILKINGTON.

Witnesses:

WM. A. STEEL,
HUBERT HOWSON.