

E. O. DARLING.  
Clothes Drier.

No. 202,002.

Patented April 2, 1878.

Fig. 1.

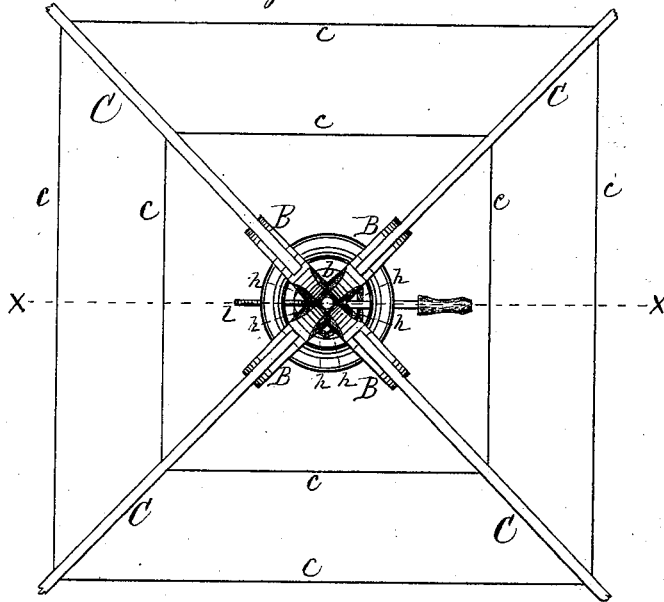
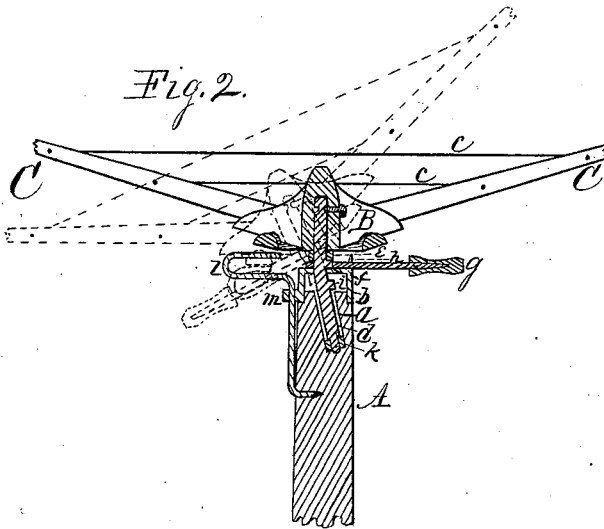


Fig. 2.



Witnesses.  
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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN CLOTHES-DRIERS.

Specification forming part of Letters Patent No. 202,002, dated April 2, 1878; application filed August 16, 1877.

*To all whom it may concern:*

Be it known that I, EDWIN O. DARLING, of Rockton, in the county of Winnebago and State of Illinois, have invented a new and useful Improvement in Clothes-Driers, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a plan view of a clothes-drier embodying my invention, and Fig. 2 is a vertical section on dotted line *x*.

My invention relates to that class of clothes-driers constructed with radial arms, connected at proper intervals by a clothes-line extending from one arm to another, forming a reel of spider-web form, mounted on a stand or post, on which it revolves; and it consists in the devices employed, by which the drier may be tipped to lower the radial arms, and consequently the clothes-line wound thereon, to a horizontal position on one side, in easy reach to put on or remove clothes therefrom, and when loaded can be readily changed to a horizontal position, free to revolve; and it further consists in providing a spring-brake to hold the reel in position when tipped.

In the drawings, A represents a stand or post, which may be fixed in an upright position in any suitable manner to meet the requirements of the party using the drier. The upper end of this post is bored obliquely, as at *a*, and is provided with a metallic cap, *b*, bored to correspond with the oblique hole in the post.

B is a metallic spider, fitted to receive radial arms C, which incline upward. These arms are connected at proper intervals by a clothes-line, *c*, producing a clothes-drying reel of spider-web form. The metallic spider B is centrally bored to receive the upper end of the spindle *d*. This spindle is formed with a necking near its upper end, which receives the inner end of a pin or screw driven or screwed in a hole in the spider, which holds it on the spindle in such a manner as to permit it to revolve freely thereon. The spindle *d* is fitted with a collar, *e*, on which the reel is supported. The spindle is formed with a bend at the lower side of the collar equal to the inclination of the oblique hole *a* in the post, so that, when in the position of the solid lines in the drawings, its upper end will be vertical, and the reel will

revolve on it in a horizontal plane. The spindle is provided with a stud, *f*, which projects from its side just under the collar *e*.

*g* is a lever, fitted at its inner end to receive the spindle, and is slotted on one side to receive the stud *f*, by means of which the spindle may be turned in the post. The arm of this lever engages upward-projecting ears *h*, of which there may be any suitable number, on the outer rim of the metallic cap *b*, which serve as detents to hold the spindle in any adjusted position within the limits of the devices, and from which the lever may be disengaged by raising its free end.

*i* is a stud, substantially the same as stud *f*, and projects from the spindle some distance below it. The metallic cap is slotted on one side of the hole which receives the spindle, to receive the stud *i*, which, when below the cap and turned from the slot, will prevent the accidental throwing of the reel from the post.

*k* is a box-bearing, fitted in the bottom of the oblique hole in the post, and receives the foot of the spindle *d*, in which it revolves.

*l* is a curved spring, the vertical portion of which is passed through the perforated ear *m*, which projects from the side of the metallic cap, and its lower end is secured to the post to hold it in position. This spring is designed to operate as a spring-brake, to hold the reel from accidental turning when tipped from a horizontal plane.

From the foregoing it will be seen that when the parts are in the position represented in the drawings in solid lines the reel will be free to revolve in a horizontal plane, and when the lever *g* is turned in the position represented in dotted lines, the reel will be tipped in the position represented in dotted lines, and the rim of the spider will come in contact with the spring-brake, compressing it sufficiently to hold the reel from accidental turning. If the lever is moved but a quarter of a revolution from the position represented in solid lines, which would be about midway between the positions represented in the solid and dotted lines, the rim of the spider will compress the spring-brake slightly, to hold the reel to receive the clothes, on its depressed portions, after which it can be turned on the brake from one point to another until it is fully loaded, when, by turning

the lever in the position represented in the solid lines, the reel will be free to revolve in a horizontal position.

To lower the reel to remove the clothes simply requires the reverse movement of the lever toward the position represented in the dotted lines until the reel rests on the spring-brake sufficiently to hold it from revolving while removing the clothes, but in such a manner as to permit it to be turned on the brake from one point to another to remove the clothes from the different portions of the reel, after which the lever can be turned to the position represented in the dotted lines, which will lower the reel on the spring-brake sufficiently to hold it from revolving by the action of the wind when not in use.

I have represented my improved drier mounted on a wooden post, instead of which a metallic post with inclined socket may be employed, and may be provided with a screw-base, by which it would be easily set, withdrawn, and reset, as circumstances might require.

I claim as my invention—

1. In a clothes-drier, substantially as herein described, the post with inclined socket and the bent spindle, in combination with the clothes-reel, substantially as and for the purpose hereinbefore set forth.

2. In combination with the clothes-drier, substantially as herein described, the spring-brake adapted to hold the reel with more or less force as it is inclined more or less, as and for the purpose hereinbefore set forth.

3. The combination of the bent spindle, the adjusting-lever, and the upward-projecting ears on the cap, for the purpose of inclining the clothes-reel mounted on the bent spindle more or less as the lever is more or less turned toward the spring-brake, substantially as and for the purpose set forth.

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Witnesses:

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