

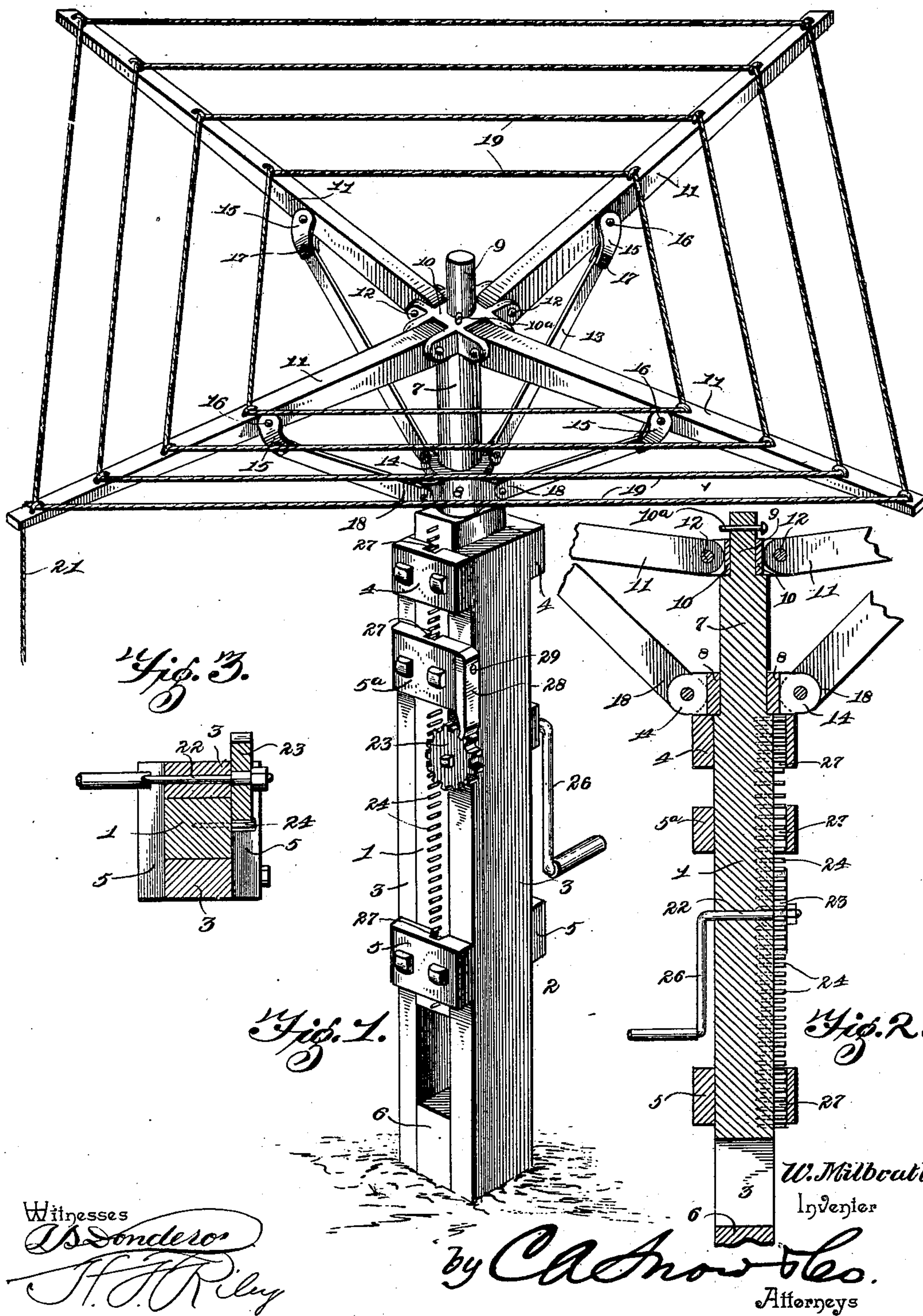
No. 665,572.

Patented Jan. 8, 1901.

W. MILBRATH.
CLOTHES DRIER.

(Application filed Apr. 30, 1900.)

(No Model.)



UNITED STATES PATENT OFFICE.

WILLIAM MILBRATH, OF LAKEFIELD, MINNESOTA.

CLOTHES-DRIER.

SPECIFICATION forming part of Letters Patent No. 665,572, dated January 8, 1901.

Application filed April 30, 1900. Serial No. 15,000. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM MILBRATH, a citizen of the United States, residing at Lakefield, in the county of Jackson and State of Minnesota, have invented a new and useful Clothes-Drier, of which the following is a specification.

The invention relates to improvements in clothes-driers.

10 The object of the present invention is to improve the construction of clothes-driers and to provide a simple and comparatively inexpensive one adapted to be readily operated to raise and lower it to bring the clothes-lines
15 within convenient reach and to elevate them, so that the clothes will dry quickly, and capable of enabling the clothes-lines and their supports to be readily removed and compactly folded, so that they may be protected from
20 the weather and kept clean.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed
25 out in the claim hereto appended.

In the drawings, Figure 1 is a perspective view of a clothes-drier constructed in accordance with this invention. Fig. 2 is a vertical sectional view of the same. Fig. 3 is a horizontal sectional view.

30 Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 designates a vertically-movable bar or member guided within a standard 2, which is composed of uprights 3, spaced apart to receive the vertically-movable bar or member 1 and connected by upper and lower cross-pieces 4 and 5 and by an intermediate front
40 cross-piece 5^a, and the upper and lower cross-pieces 4 and 5 are arranged in pairs and are located at the front and back of the standard, as clearly shown in Fig. 1. The lower ends of the uprights 3 are extended below the cross-pieces 5 and are secured to the upper end of
45 a stake 6, adapted to be driven into the ground and extending above the same, as shown in Fig. 1.

50 The vertically-movable bar or member 1 is provided with an upper reduced or rounded portion 7, receiving a collar 8 and having a further reduction 9, upon which is mounted a

hub 10. When the clothes-drier is open and in position for use, as illustrated in Fig. 1 of the accompanying drawings, the collar 8 rests
55 upon the shoulder formed by reducing the bar to provide the rounded portion 7, and the hub is supported upon the upper shoulder formed by the upper reduction, and it is detachably secured in place by means of a pin 10^a; but
60 any other suitable fastening device may be employed for this purpose.

The hub or head 10, which is adapted to rotate on the upper end of the bar or member 1, is provided with projecting perforated ears
65 arranged in pairs and receiving the inner ends of arms 11, which are secured to the hub by pivots 12, passing through the perforations of the ears and through the said arms 11. The arms are supported by braces 13, extending
70 upward from ears or projections 14 of the collar 8 and connected with the arms 11 at points between the ends thereof by plates 15, arranged in pairs and located at opposite sides of the arms and the braces. The plates
75 15 are perforated for the reception of bolts 16 and 17 or other suitable pivots, which extend through the said plates and through the arms and the braces. The lower ends 18 of the
80 braces are bifurcated to receive the projections or ears of the collar 8 and are pivoted to the same by means of pins or bolts. The arms are connected by lines 19, arranged at intervals, as shown, and adapted to receive the clothes, which may be secured to them by
85 ordinary clothes-pins or other suitable devices. The hub or head and the collar are adapted to rotate, so that the entire clothes-drier may be filled without necessitating the operator walking around it. The collar 8 is
90 also vertically movable on the rounded portion 7 to enable the arms to be folded in an upright position, as illustrated in Fig. 2 of the drawings, and one of the arms is provided with a depending cord 21, by means of which
95 the arms may be readily swung downward or horizontally to rotate the clothes-drier when the same is elevated.

The clothes-supporting arms, the braces, and the connections between the same and
100 the bar or member 1 may be readily removed when the parts are folded to protect the clothes-lines from the weather and to keep them clean.

The vertically-movable bar or member 1 is raised and lowered by means of a crank-shaft 22, having a gear-wheel 23 and a rack consisting of a series of pins or nails 24, having their inner ends embedded in the front face of the bar or member 1 and extending horizontally from the same. The crank-shaft, which is provided at the back of the standard with a crank 26, is journaled in a suitable bearing of the adjacent side of the standard, and the gear-wheel is arranged against the front face of the side or upright of the standard on which the shaft is mounted and projects over the front face of the bar or member 1 and meshes with the horizontally-projecting pins or nails. The front cross-pieces, which connect the sides or uprights of the standards, are provided at their inner faces with recesses 27, arranged in vertical alignment and forming passages for the projecting pins. The vertically-movable bar or member is locked at any desired adjustment by a pawl 28, pivotally mounted on one end of the cross-bar 5^a by a screw 29. The free end of the pivoted pawl is beveled, and as its other end is located directly above the gear-wheel it is adapted to operate by gravity and will remain in engagement with the gear-wheel until disengaged by the operator. The bar or member 1 is adapted to be readily raised and lowered by rotating the crank-handle, and the recesses at the inner faces of the front cross-pieces permit the pins to pass through them.

It will be seen that the clothes-drier is sim-

ple and comparatively inexpensive in construction, that it is adapted to be readily raised and lowered and secured at the desired adjustment, and that the arms may be swung upward to an upright position above the vertically-movable bar or member to fold them compactly.

What is claimed is—

In a clothes-drier, the combination of a standard composed of uprights, and front and rear cross-pieces, the front cross-pieces being provided with vertically-alined recesses, the vertically-movable bar or member guided in the standard and provided with means for supporting clothes, the vertically-alined horizontal pins projecting from the bar or member horizontally and having their inner ends embedded in the same, said pins being arranged at intervals and forming a rack, a crank-shaft journaled on the standard at one side thereof, a gear-wheel arranged against the front of the standard and extending over the front of the bar or member and meshing with the pins, and the pawl arranged at one side of the standard and pivotally mounted at a point above the gear-wheel and engaging the same, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WILLIAM MILBRATH.

Witnesses:

JOHN G. PALMER,
CARL F. HALING.