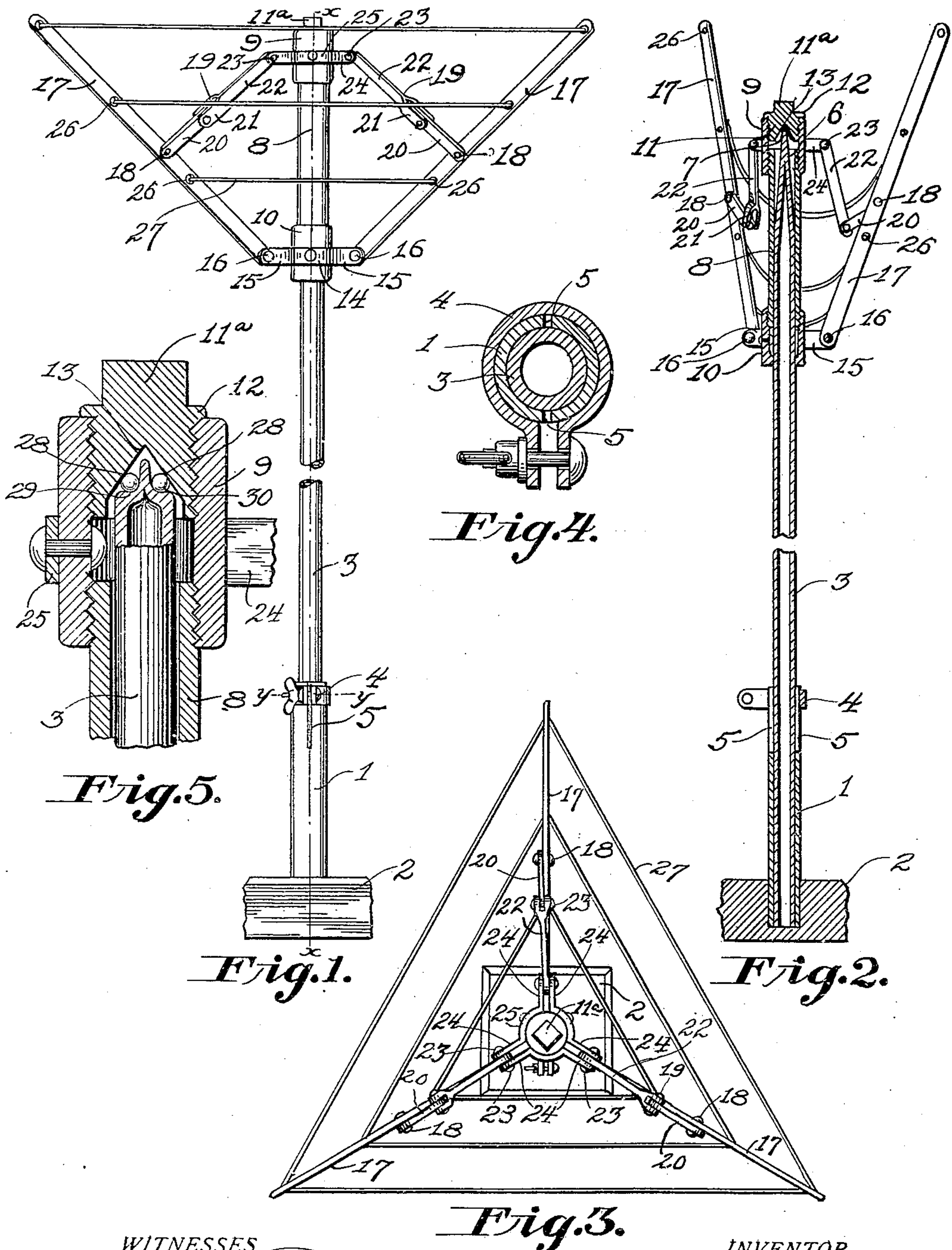


F. E. BIRD.
CLOTHES DRIER.
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955,576.

Patented Apr. 19, 1910.



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UNITED STATES PATENT OFFICE.

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CLOTHES-DRIER.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, FRED E. BIRD, a citizen of the United States of America, residing at Granger, in the county of Williamson and State of Texas, have invented certain new and useful Improvements in Clothes-Driers, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to improvements in clothes driers, and has for its object to provide a drier which can be quickly placed in position and when not in use be folded up and taken down.

Other objects and advantages of my invention will appear in the course of the following specification.

In the accompanying drawings: Figure 1 is a side elevation of my improved drier. Fig. 2 is a longitudinal sectional view on the line $x-x$, Fig. 1, the arms of the drier being shown as folded up. Fig. 3 is a top plan view of my clothes drier as illustrated in Fig. 1. Fig. 4 is a cross sectional view (enlarged) on the line $y-y$, Fig. 1, looking in the direction of the arrow, the base of the drier being omitted. Fig. 5 is a longitudinal sectional view through the upper end of the drier showing the same fitted with ball bearings.

Referring to the drawings, which represent the preferred embodiment of my invention, 1 designates a hollow cylindrical stand which is secured in a suitable base 2. Adjustably supported in the stand 1 is a hollow cylindrical mast 3, which is secured in adjusted positions by means of a clamp 4 which is adapted to compress the top of the stand by reason of the diametrically opposite short longitudinal slots 5-5.

The top of the support or mast 3 is tapered, as at 6, to a point 7. Pivotally mounted on the mast 3 is a cylindrical sleeve 8, the upper and lower ends of which are exteriorly screw-threaded, and have threaded thereon collars 9 and 10. The upper collar 9 has threaded therein a tap or closure 11 provided with an annular projection or flange 12 and, on its outer end, with a nut 11^a. The flange 12 of the tap is located at the upper end of the threaded portion of the tap 11 and is designed to limit the distance that the tap can be threaded into the collar 9. The flange 12 constitutes an effectual means for excluding moisture, and thereby prevents any rusting of the interior of the

sleeve 8. The tap 11 in its lower end is provided with a conical aperture or depression 13 in which the point 7 of the mast 3 enters, and this constitutes the pivot of the sleeve 8.

A plurality of brackets designated 14, preferably three in number, are connected to the collar 10. These brackets are each provided with two arms 15-15, the arms of each bracket being substantially parallel with and spaced from the arms of the opposite brackets. Pivoted, as at 16, between the opposite arms 15 of the brackets are arms or braces 17 which are suitably pivoted near their centers, as at 18, to toggles 19. The lower arms 20 of the toggles 19 are pivoted in bifurcations 21 formed in the lower ends of the upper arms 22. The upper arms 22 of the toggles are pivotally mounted, as at 23, between the arms 24 of the brackets 25 secured to the collar 9. The brackets 25 are three in number and are similar in construction and arrangement to the brackets 14 secured to the collar 10 hereinbefore referred to. The arms 24 of the brackets 25 are arranged directly above the arms 15 of the brackets 14 in order that the adjustment of the braces or arms 17 may be easily effected. The arms 17 are provided with a plurality of preferably equi-distant lineal perforations 26 through which are passed wires or ropes 27 which constitute the supporting means for the clothes or other articles which may be hung on the drier.

When using my drier, the person placing the articles to be dried thereon can stand in one position and place the same on the wires 27, turning the arms 17 and thereby hanging all the articles on the frame without changing his position, owing to the fact that the arms are pivotally supported.

In the construction of a large drier, it will be advantageous to support the arms 17 and the parts to which they are connected, which constitute a frame, by means of bearings 28, as seen in Fig. 5 of the drawing. In this figure, the upper end of the mast 3 is provided with a circumferential depression or groove 29 which constitutes a ball race in which are supported a plurality of balls 30. In this construction, the balls 30 will contact with the sides of the conical depression 13, and, hence, the frame will be supported by bearings and the turning of the device consequently rendered easier.

When it is desired to remove the drier from the standard, the toggles are broken at

the points 21 and pushed down, while the arms are raised to a vertical position as shown in Fig. 2.

What I claim is:—

- 5 1. In a device of the character described, a standard, a revoluble sleeve mounted on the upper end of said standard, said sleeve having a collar at each end thereof, a detach-
10 able plug in the upper collar having a recess in its lower end into which the upper end of the standard projects, and a foldable clothes supporting frame hinged to the lower collar and connected by hinged toggle braces to the upper collar.
- 15 2. In a device of the character described, a standard having its upper end formed with an annular channel, a revoluble sleeve mounted on the upper end of said standard and having a collar at its lower end and a collar
20 threaded to its upper end, a flanged plug threaded into the upper collar and having a recess in its lower end into which the upper end of the standard projects, balls located in said annular channel and bearing against

the inner surface of said plug, a foldable 25 clothes supporting frame hinged to the lower collar of said sleeve, and toggle braces connecting said foldable frame with the upper collar of said sleeve.

3. In a device of the character described, 30 a standard having an annular channel in its upper end, a revoluble sleeve mounted on the top of said standard and having a collar at each end with brackets, the upper sleeve having a detachable adjustable plug with a re- 35 cess in its lower end, balls located in said annular groove and bearing against the inner surface of the plug, foldable arms hinged to the lower collar of said sleeve, and toggle arms connecting said hinged arms with the 40 upper sleeve.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

FRED E. BIRD.

Witnesses:

JULIUS M. SCHRAMM,
RICHARD CRITZ.