

(No Model.)

J. P. HILL.  
CLOTHES DRIER.

No. 516,331.

Patented Mar. 13, 1894.

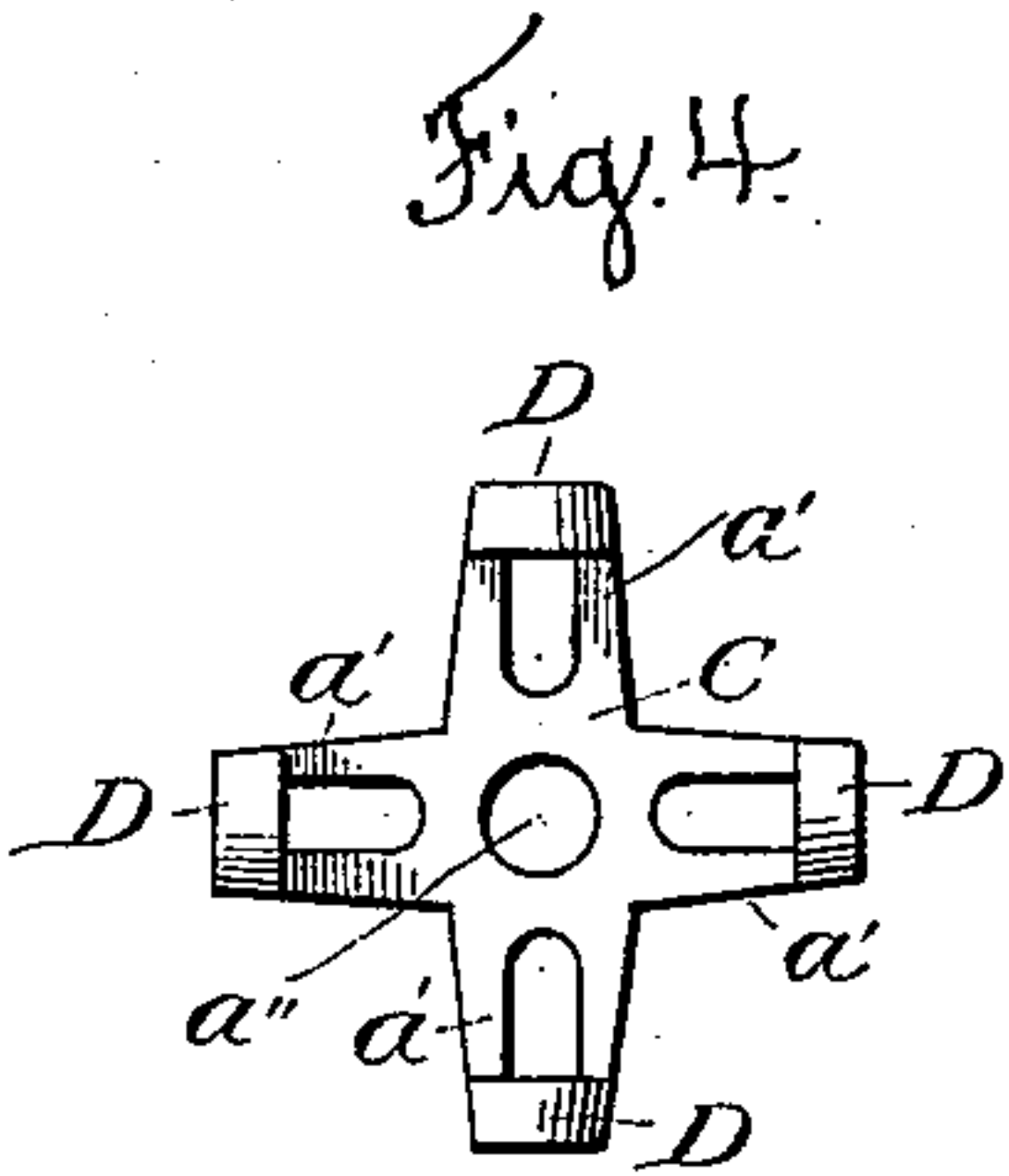
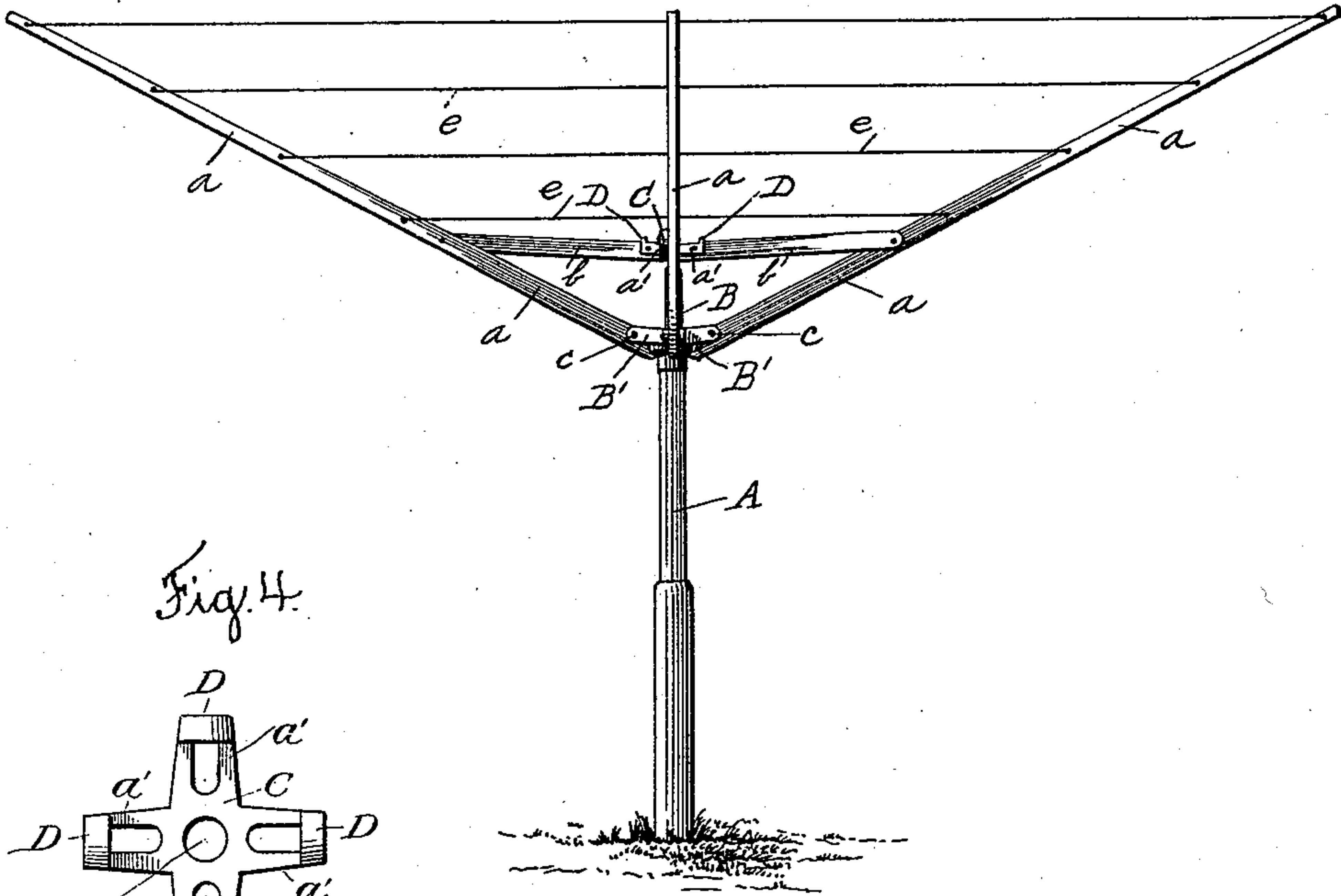


Fig. 1.

Fig. 2.

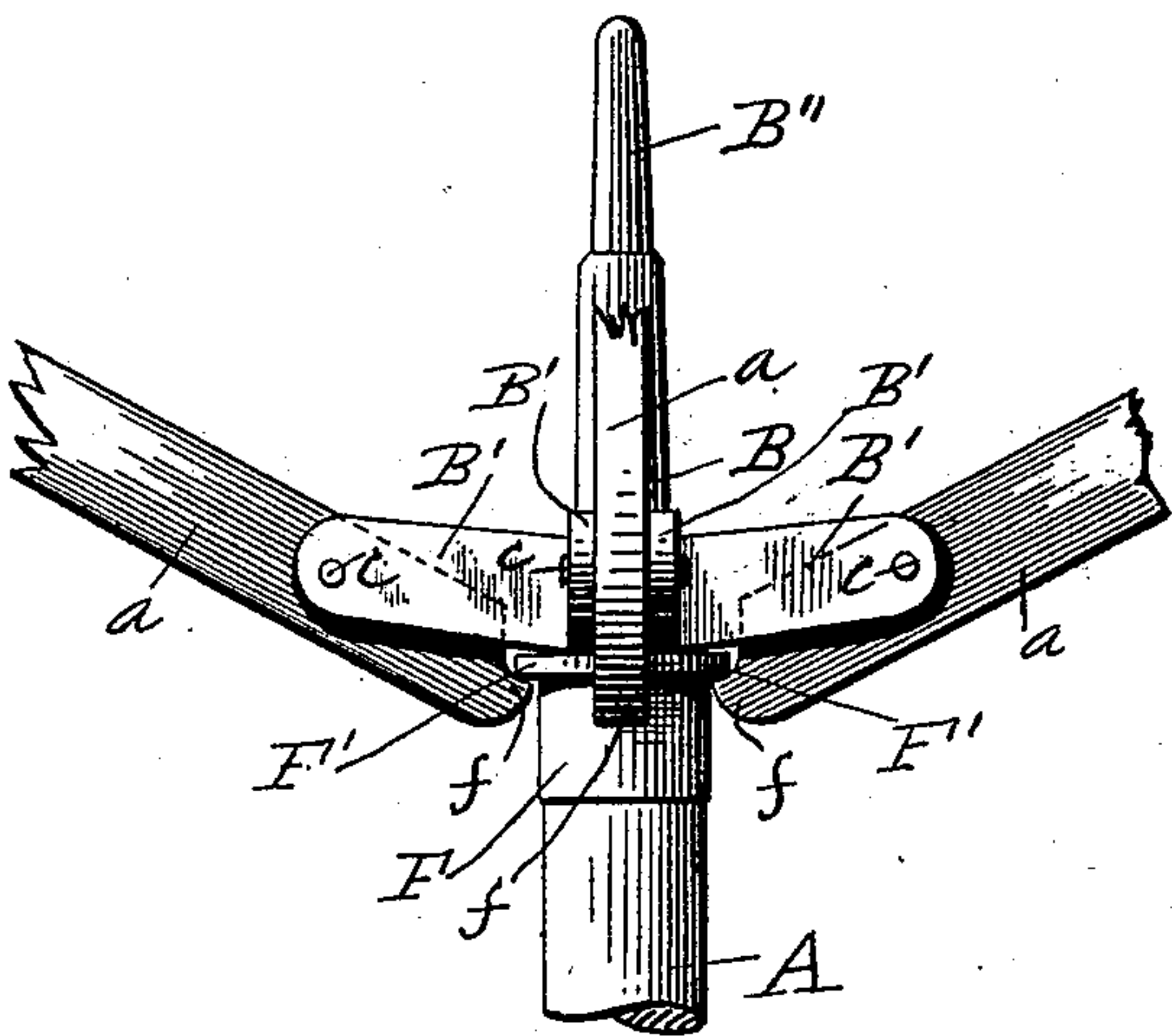
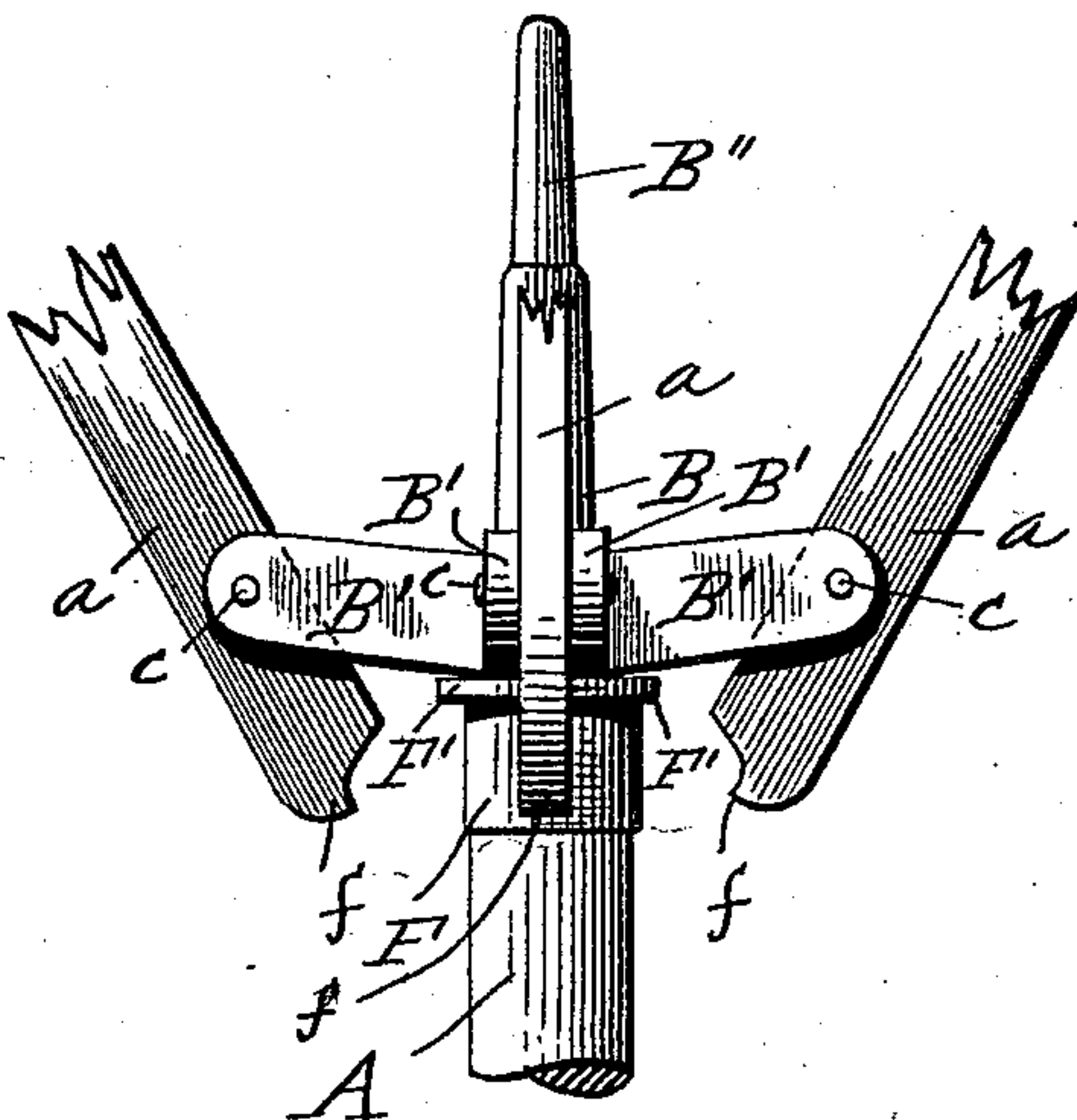


Fig. 3.



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# UNITED STATES PATENT OFFICE.

JOSEPH P. HILL, OF WORCESTER, MASSACHUSETTS.

## CLOTHES-DRIER.

SPECIFICATION forming part of Letters Patent No. 516,331, dated March 13, 1894.

Application filed November 25, 1893. Serial No. 491,936. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH P. HILL, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Clothes-Driers; and I do hereby declare that the following is a full, clear, and exact description thereof, which, in connection with the drawings making a part of this specification, will enable others skilled in the art to which my invention belongs to make and use the same.

My invention relates to clothes driers, and particularly to an improvement on the clothes drier shown and described in my United States Letters Patent, No. 165,674, of July 20, 1875, to which reference is hereby made.

The object of my present invention is to improve upon the construction of my patented clothes drier, and to construct the same in such a manner, that the drier, when in use with the arms expanded, cannot be lifted or detached from its supporting post. When the drier is not in use, and the arms are folded together, it may be removed from the post.

My invention consists in certain novel features of construction and operation of my improved clothes drier, and more particularly in providing the expanding arms thereof with projecting portions at their inner pivoted ends, adapted to engage the top of the upright post or support, when said arms are expanded and held or locked by the stretcher rods, to prevent the drier being lifted off of its supporting post, as will be hereinafter described.

Referring to the drawings:—Figure 1 is a view of my improved clothes drier, with the arms expanded, and locked in their outward position. Fig. 2 is a detail, on an enlarged scale, showing the inner ends of the expanding arms of the drier engaging the top of the post, to prevent the drier being removed from the post. Fig. 3 corresponds to Fig. 2, but shows the expanding arms disengaged from the top of the post, to allow of the removal of the drier. Fig. 4 shows on an enlarged scale, the head C, shown in Fig. 1, detached.

The same letters of reference are used herein as in my patent above referred to.

In the accompanying drawings, A is the up-

right post, B the revolving hub, having the radial arms B' between which are pivoted the inner ends of the expanding arms *a* on pins *c*. The cords *e* pass through said arms *a* to support the clothes hung thereon. The stretcher rods *b* are pivotally supported at their inner ends in the radial arms *a'* of the head C shown detached in Fig. 4. The outer ends of each pair of radial arms *a'* of the head C are connected on their upper surface by a cross bar D, which bears on the top of the stretcher rod *b*, at its inner end, and acts as a stop to limit the downward motion thereof. The outer ends of the stretcher rods *b* are pivoted to the arms *a*. The head C, having the radial arms *a'*, to which are pivoted the inner ends of the stretcher rods *b*, as above described, has a central opening *a''* therein, which fits over and loosely engages the upward extension B'' of the hub B.

All of the above parts, with the exception of the inner ends of the arms *a* are of substantially the same construction and operation as the similar parts shown and described in my said Letters Patent.

I will now proceed to describe my improved construction of the arms *a*, to cause the same to engage the top of the upright post B, for the purpose above set forth.

The inner pivoted ends of the arms *a* are provided with projecting portions, as *f*, in this instance made integral with the arms themselves, which surfaces are adapted to engage the upper end of the post B, and in this instance to engage a flanged head F secured on the top of the post, and having the outwardly extending flange F', under which the projecting ends or portions *f* of the arms *a* extend, when said arms are expanded, as shown in Figs. 1 and 2. When said arms are moved toward each other the portions *f* are disengaged from the flanged head F, and the drier may be removed from its supporting post, see Fig. 3. In order to hold the arms *a* expanded, with their inner projecting ends extending under the flange F' on the post B, to prevent the removal of the drier from the post, it is essential that the stretcher rods *b* should be constructed and combined together, so that their inner pivoted ends will be in a plane below their outer pivoted ends, when



the head C, pivotally connected with said rods *b*, engages the extension B'' of the hub B, as shown in Fig. 1. By means of the stretcher rods *b*, and the head C, engaging the extension B'', as above described, the arms *a* are held and locked in their expanded position.

The advantages of my improvements, will be readily appreciated by those skilled in the art.

10 I provide for the attachment of the expanded drier to the upright post, so as to prevent the removal thereof, in a very simple and inexpensive way, and at the same time I do not interfere with the free revolution of the drier, 15 or of the free removal of the same from the post, when the arms *a* are moved toward each other, or folded.

Having thus described my invention, what

I claim as new, and desire to secure by Letters Patent, is—

20 The combination with an upright post or support, having a projecting flange at its upper end, of the clothes drier, mounted and adapted to revolve on said post, with its expanding arms adapted to engage the flange 25 on the post, and stretcher rods pivotally connected with said arms at their outer ends, and pivotally supported at their inner ends so as to extend in a plane below the outer ends thereof, to lock the arms in their ex- 30 panded position, substantially as shown and described.

JOSEPH P. HILL.

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