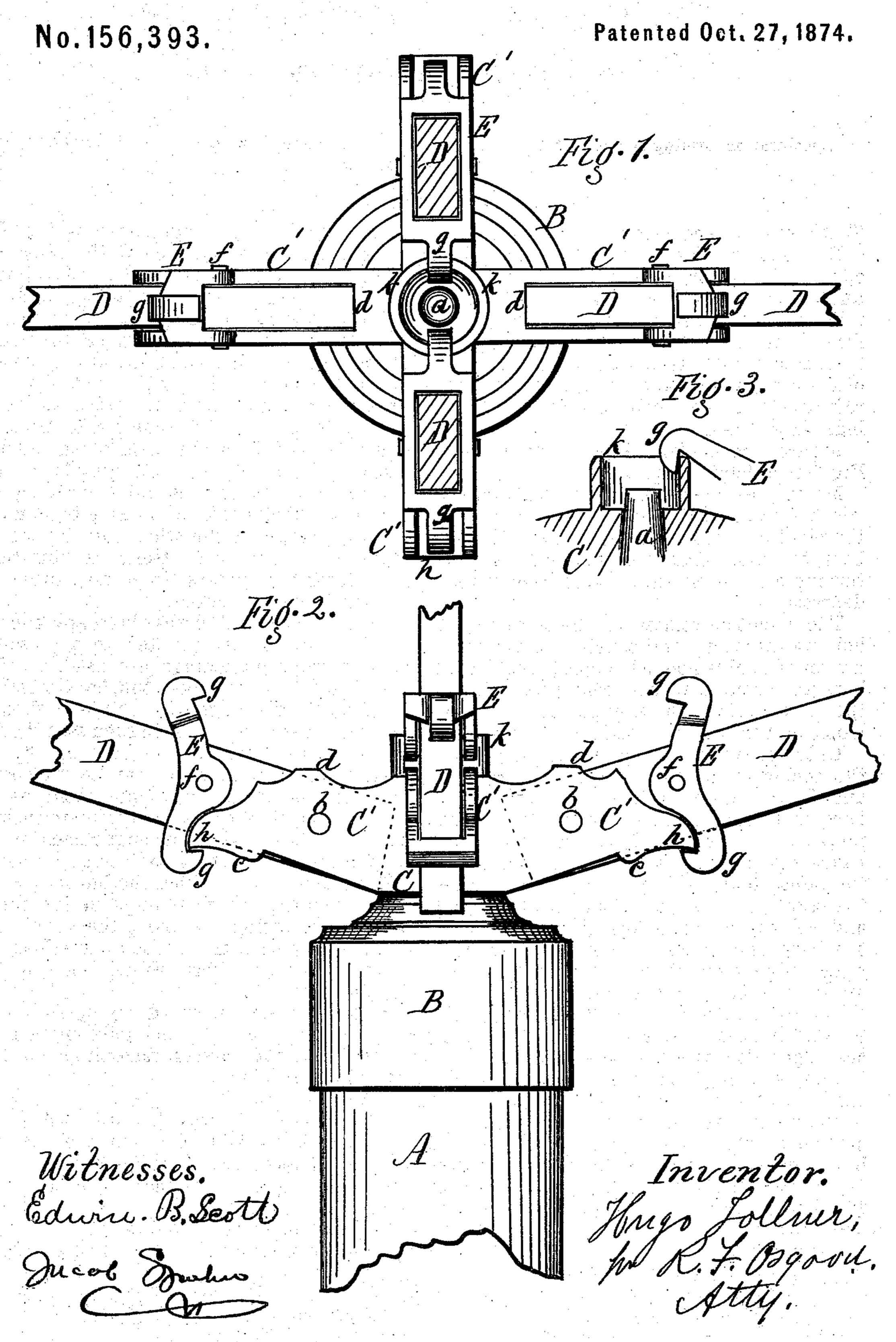
H. TOLLNER. Clothes-Driers.



United States Patent Office.

HUGO TOLLNER, OF ROCHESTER, NEW YORK.

IMPROVEMENT IN CLOTHES-DRIERS.

Specification forming part of Letters Patent No. 156,393, dated October 27, 1874; application filed September 21, 1874.

To all whom it may concern:

Be it known that I, Hugo Tollner, of the city of Rochester, in the county of Monroe and State of New York, have invented a certain new and useful Improvement in Clothes-Drier; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, in which—

Figure 1 is a plan. Fig. 2 is an elevation.

Fig. 3 is a detail view.

My improvement belongs to that class in which a cross-head is employed, turning upon the pivot of a post, and provided with radial bars, to which cords are attached, said bars turning also on pivots, so as to be elevated or depressed.

The invention relates to the fastenings for holding the bars; and consists in the combination of double-hooked loops pivoted to the bars and shoulders, and a center thimble upon the cross-head for the engagement of the said

loops, as hereinafter described.

In the drawings, A represents the post; B, the socket or bearing on top of the same; and C, the cross-head, which supports the bars and turns horizontally upon a central pin, a, of the socket. The cross-head has four right-angled arms, C' C' C' C', in which rest the radial bars D D, pivoted at b b. When the bars are lowered, as shown at the right and left in the drawings, the lower edge of the bars rests upon a shoulder, c, and the upper edge against a shoulder, d, thus retaining the bars in position under the load. When the bars are elevated, as shown at the top and bottom in the drawings, their opposite edges also strike against said shoulders, thereby keeping them stiff in the upright position, and preventing rattling when secured to the fastenings hereinafter described. E E are the double hook-headed loops, which embrace the rods D and are pivoted thereto, as at f, so as to have a free turning movement. The heads g g are made in book form, and both stand inward toward the cross-head. When the bars are lowered the lower hook engages with a shoulder, h, upon the outer end of the bearings C', and when elevated the upper hook engages with the open-topped thimble k, which is cast upon the top of the cross-head. This thimble, by being of ring-

shape and open inside, enables the hooks to engage therewith, even if the bars do not rise straight, but have a side play, and the hook-heads, being rounded and of latch form, will slide over and drop into said thimble, as well as slide over and engage readily with the shoulders h. The loops are also so balanced relatively with their pivots that they gravitate in one direction or the other as the bars are raised or lowered, thus rendering the engagement of the hooks with the shoulders automatic. Therefore, in changing from one position to the other it is only necessary to release the hook-head on one side by hand, and it will engage on the other side by the mere movement of the bar itself. In this respect my invention differs from any other with which I am acquainted.

I am aware that clothes-bars are known in which the bars are pivoted to a cross-head, and in which fastenings are used, consisting of notched slides upon the bars which rise and fall, and engage with points or shoulders on the cross-head. But in such case the slides have to be elevated and held up by hand while the bars are being turned to position, thus requiring an extra movement over my device, which requires only the releasing of the hook itself, when the engagement is made automatically by the gravitating of the hook in the direction in which the bar moves.

By making the fastenings in the form of loops, embracing the bars, they are evenly balanced, and therefore surer in their automatic movements than would be if attached on the sides only.

Having thus described my invention, I do not claim, broadly, radial bars pivoted to a cross-head, and having fastenings for securing the bars; but

What I claim is—

The bars D D, provided with the pivoted loops E E, having hooks at each of their ends, in combination with the shoulders h h and thimble k of the cross-head C, as and for the purpose described.

In witness whereof I have hereunto signed my name in the presence of two subscribing

witnesses.

HUGO TOLLNER.

Witnesses:

R. F. OSGOOD, E. B. SCOTT.