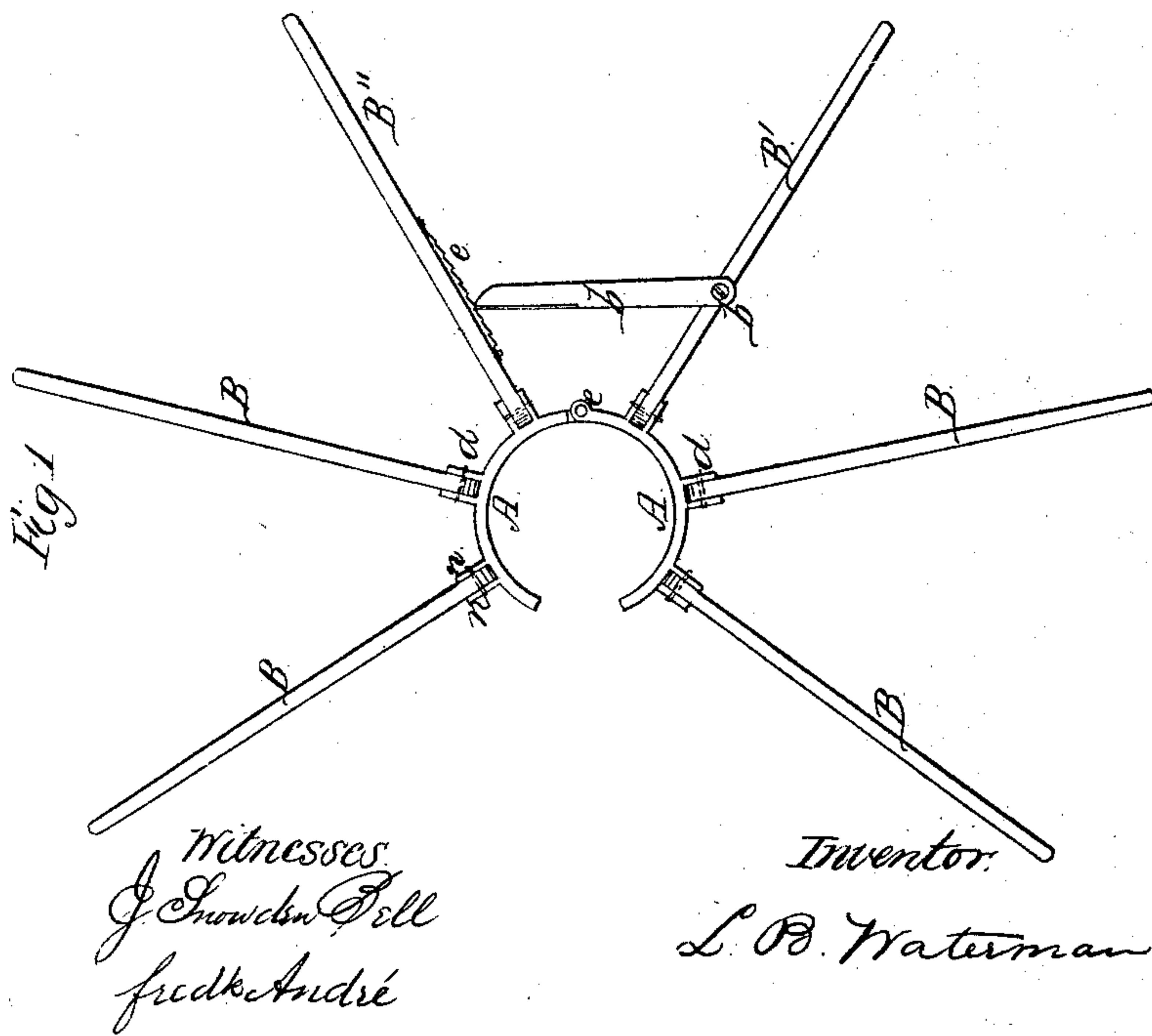
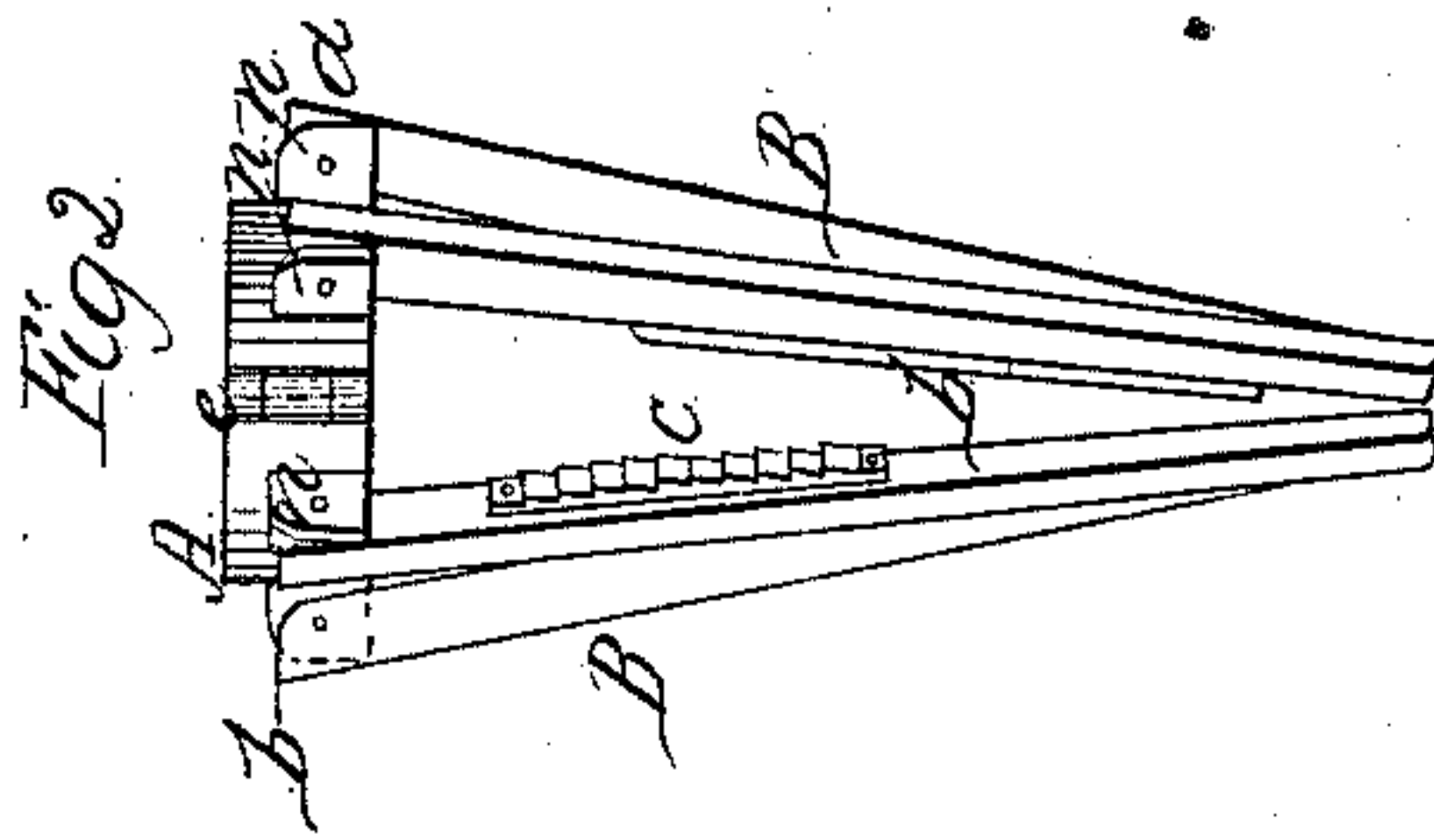


*L. B. Waterman,*

*Stovepipe Shelf,*

*N<sup>o</sup> 80,316,*

*Patented July 28, 1868*



Witnesses  
*J. Snowden Pell*  
*fredk André*

Inventor.  
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# United States Patent Office.

L. B. WATERMAN, OF CHICAGO, ILLINOIS.

Letters Patent No. 80,316, dated July 28, 1868.

## IMPROVED CLOTHES-DRIER.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, L. B. WATERMAN, of Chicago, in the county of Cook, and State of Illinois, 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, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon, like letters indicating like parts wherever they occur.

To enable others skilled in the art to construct and use my invention, I will proceed to describe it.

My invention consists in a novel construction of a clothes-drying frame, whereby the frame may be attached to or detached from the pipe of a stove, as hereinafter more fully explained.

Figure 1 is a top plan view, and

Figure 2 is a side elevation, representing the frame detached and folded up to be set away.

In the preparation of clothing it is desirable to have a frame convenient for hanging them on while drying, and which shall occupy as little space as possible in the room, and that can be readily hung up or packed away when not in use. These objects I accomplish by so constructing the frame that it can be readily attached to and supported by the pipe of an ordinary stove, and which can be readily detached, compactly folded, and hung up when not desired for use.

To make my improved device, I construct a light iron frame or collar, consisting of two semicircular pieces, A, and hinge them together at one end, as represented in fig. 1, the hinge-joint being shown at *e*. These pieces A have a series of lugs or ears, *n*, cast on their exterior face, these ears being arranged in pairs, at a proper distance apart to permit a bar, B, to be pivoted between each pair, by means of a pin, *d*, which passes through both ears and the end of the bar.

The bars B have their ends formed as represented in fig. 2, so that when spread out as shown in fig. 1, the point *l*, which forms their lower shoulder, will strike or bear against the lower portion of the pieces A, and thus hold them rigidly in position, their upper shoulders being rounded off, to permit the bars to be folded upward and inward, as shown in fig. 2, it being there represented upside down, or in the reverse position from what it occupies when attached to the pipe.

To the bar B' is pivoted a brace, *b*, of proper length, to bear against the bar B'', on the opposite side of the joint *e*, the end of the brace resting against a metal piece, *c*, secured to the side of the bar B'', this piece *c* being provided with notches for holding the brace firmly in position, and preventing it from slipping or becoming accidentally displaced.

Instead of the notched piece *c*, a strip of rubber may be secured to the side of the bar B'', and the end of the brace *b* be allowed to rest against it, the friction and yielding surface of the rubber being sufficient to hold the brace securely in place; or, if preferred, a piece of rubber may be secured in any suitable manner to the end of the brace itself, in such a position that it will bear against the bar B'' when the brace is placed in position.

The semicircular bars or pieces A are made of such a size, that when arranged in position they will form something less than an entire circle, so that they may be secured to pipes of various sizes, the hinge *e* being so constructed as to permit the pieces A to be pressed together, so as to clasp the pipe, and be held against it by the brace *b*, sufficiently tight to hold the frame securely in place.

In constructing the pieces A, I sometimes form them with a small strip, connecting each pair of ears *n*, this strip being formed on the top of the ears, and extending across from one to the other of the pair, thus forming a flange or shoulder at the point where the ears join the bands A, against which the upper side of the bars B may rest, and thus assist to brace them more firmly in place when spread out.

To apply it, it is only necessary to open the bands and clasp them around the pipe, and then secure it firmly there by the brace *b*. Being directly above the stove, the ascending currents of hot air will dry the clothes rapidly, and in much less time than can be done with the ordinary clothes-frames which stand about the room. At the same time they are more out of the way, and thus utilize a space otherwise of little or no avail.

Having thus described my invention, what I claim, is—

A detachable clothes-drier, consisting of the hinged bands A, having the bars B pivoted thereto, and arranged to be secured to a stove-pipe by means of the brace or pawl *b*, and the ratchet, or its equivalent of rubber, as herein described.

L. B. WATERMAN.

Witnesses:

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