

D. B. LOVEJOY.  
CLOTHES-DRIER.

No. 176,326.

Patented April 18, 1876.

Fig 1

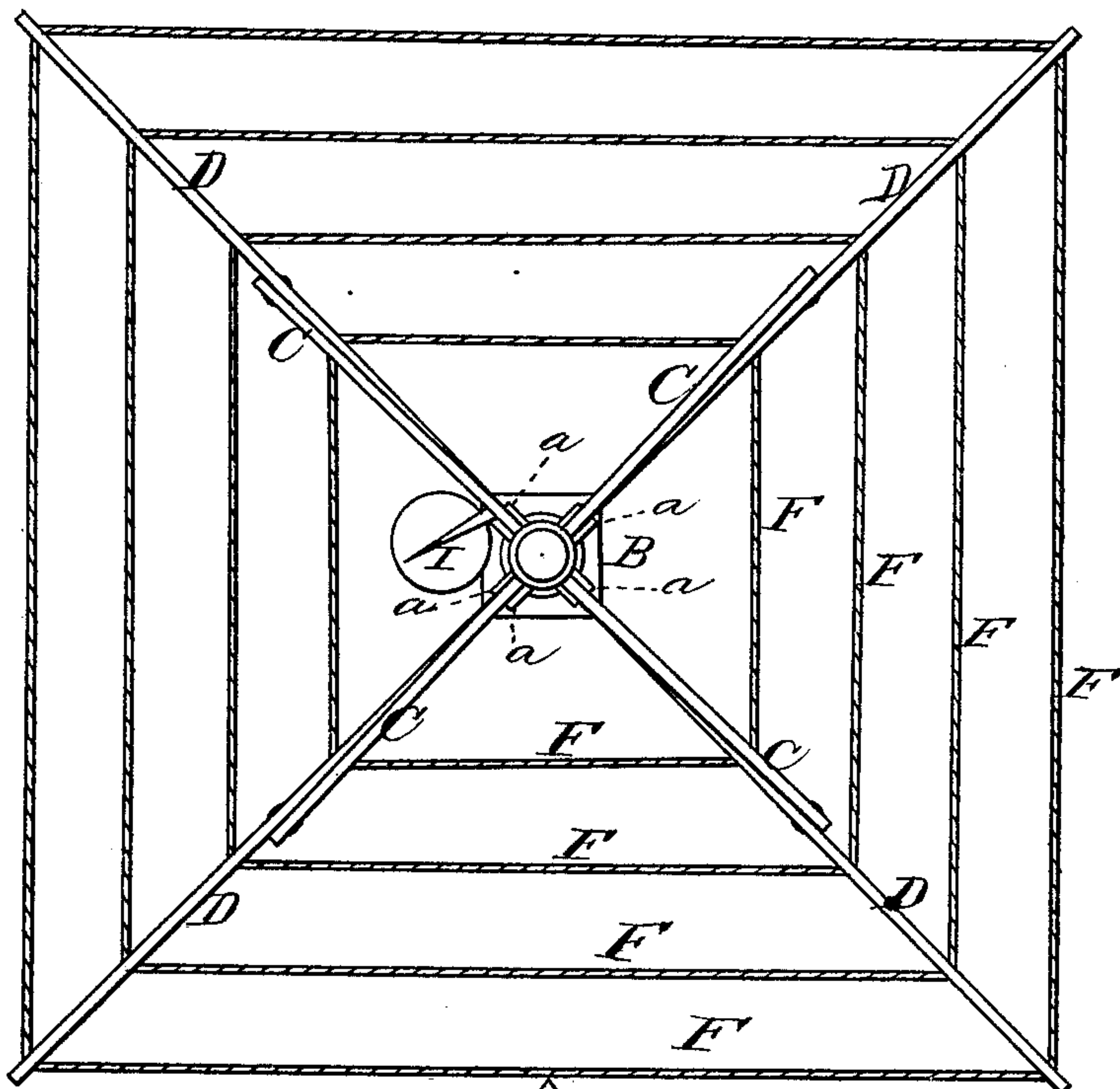


Fig 2

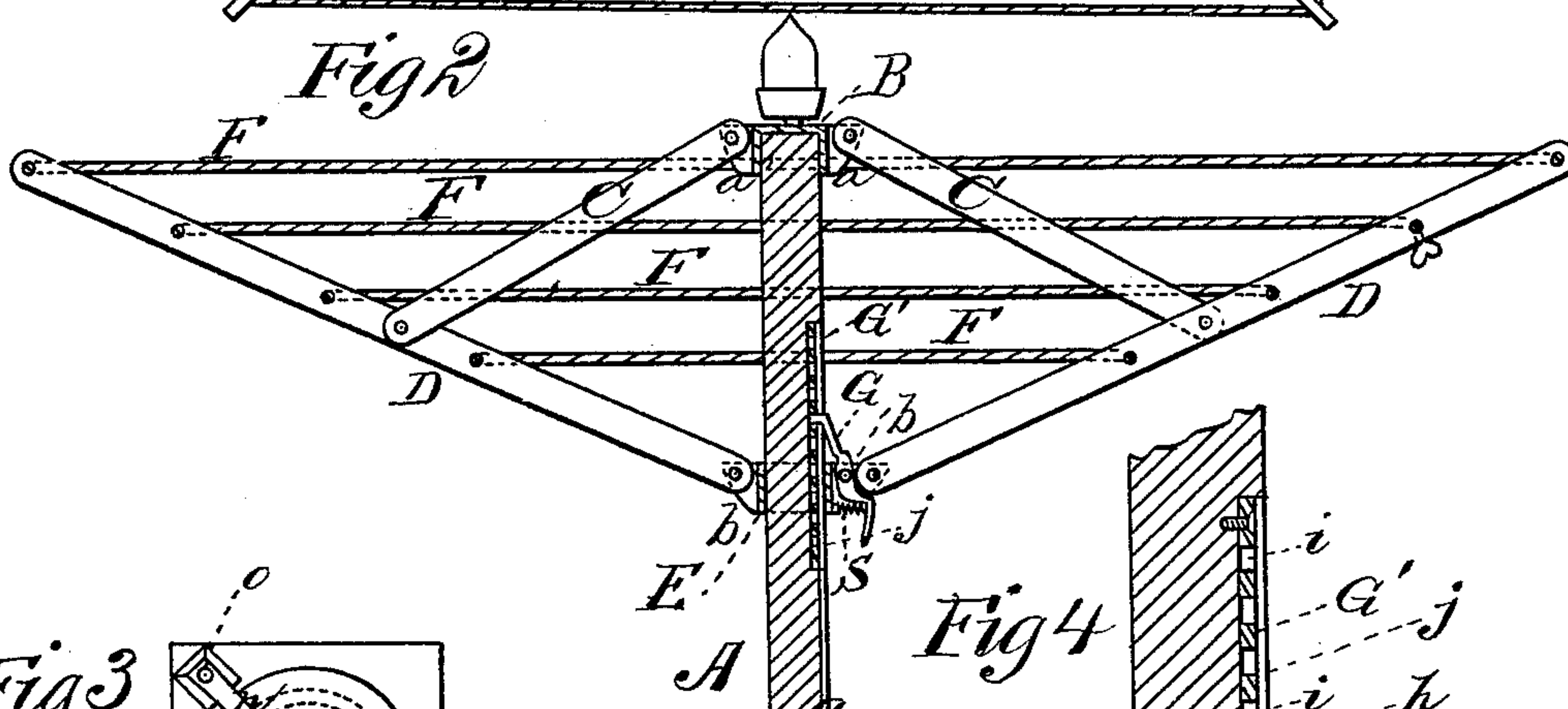


Fig 3

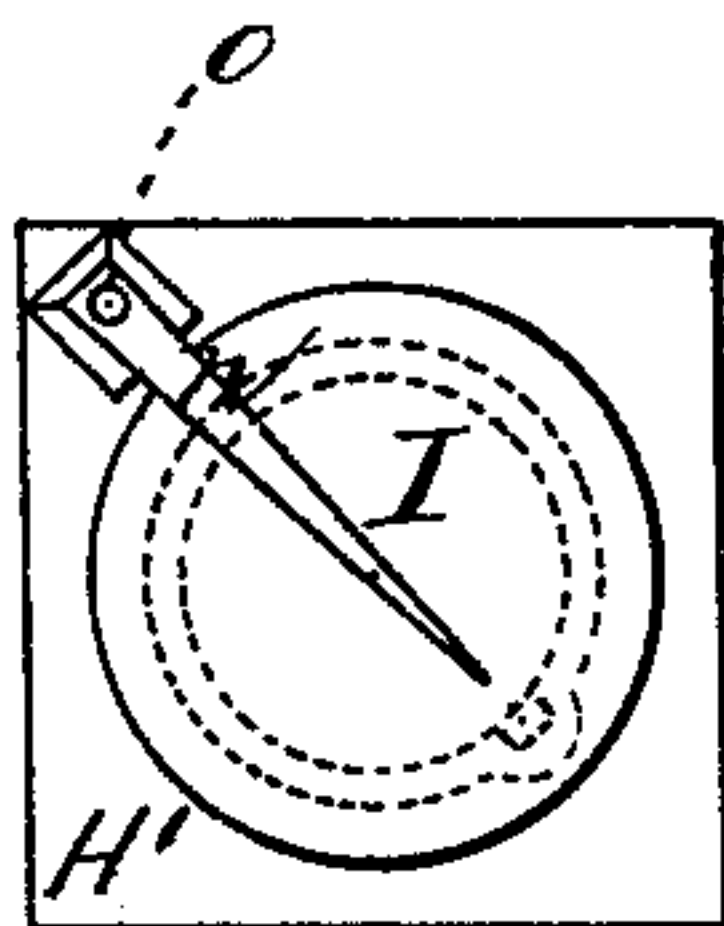
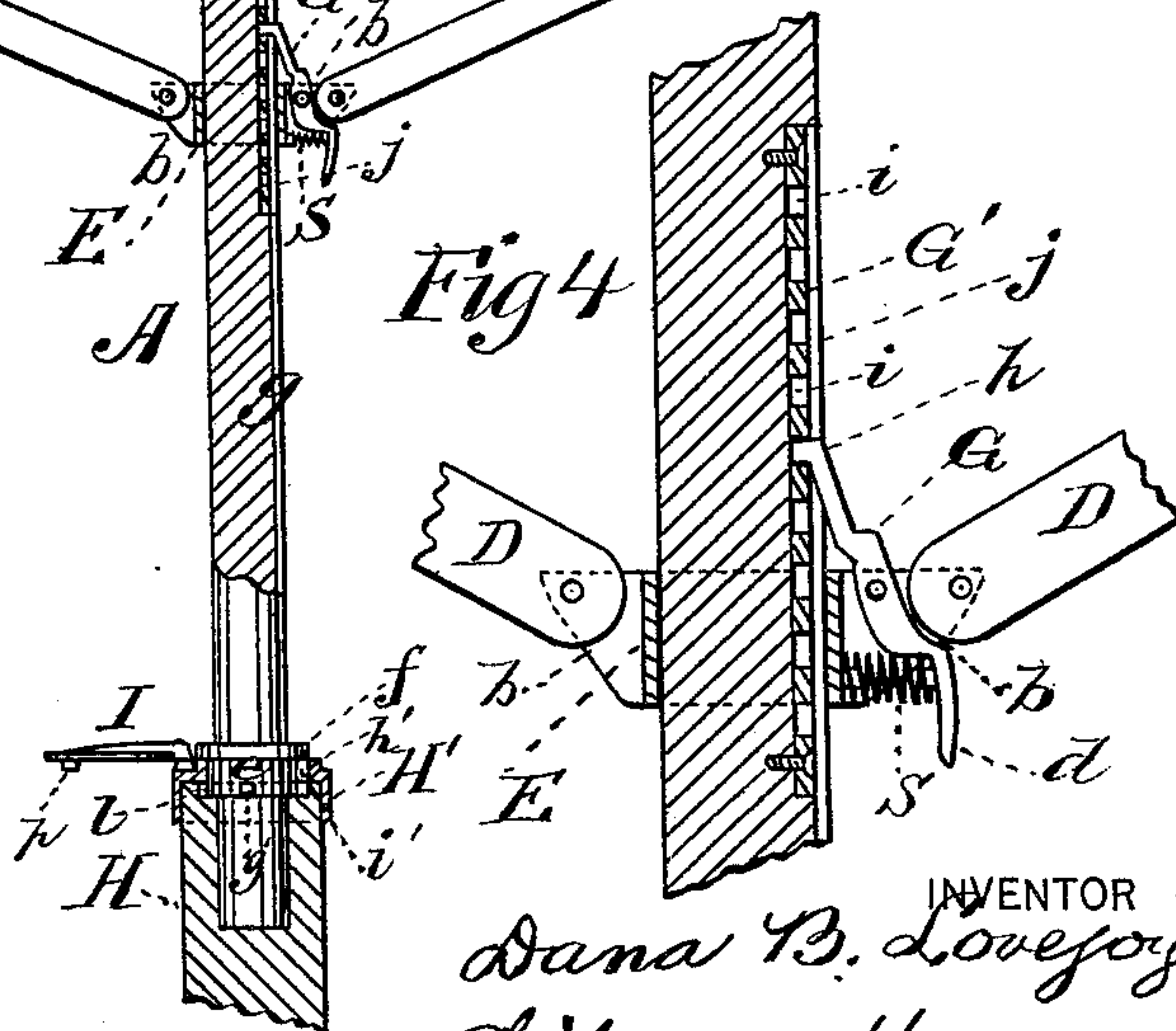


Fig 4



WITNESSES

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# UNITED STATES PATENT OFFICE.

DANA B. LOVEJOY, OF AUGUSTA, MAINE.

## IMPROVEMENT IN CLOTHES-DRIERS.

Specification forming part of Letters Patent No. **176,326**, dated April 18, 1876; application filed January 8, 1876.

*To all whom it may concern:*

Be it known that I, DANA B. LOVEJOY, of Augusta, in the county of Kennebec and State of Maine, have invented a new and valuable Improvement in Clothes-Driers; 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 annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a plan view of my clothes-drier, and Fig. 2 is a vertical central sectional view thereof. Fig. 3 is a detail view, and Fig. 4 a sectional detail view.

This invention has relation to improvements in extensible and folding clothes-driers; and it consists in a flanged and spurred sleeve, rigidly secured to the lower part of the upright pole, and adapted to be received into a socket, having a recess adapted to receive the spur on the sleeve, whereby a means is provided for preventing the drier-frame from being blown out of the socket and preventing leakage therein, as will be hereinafter more fully explained and claimed.

In the annexed drawings, the letter A designates a cylindrical pole of suitable size, which is provided at its upper end with a metallic cap, B, having spaced lugs *a*, between which are pivoted the short arms C of my improved drier. Arms C are pivoted at their lower ends to the long arms D, which are themselves pivoted between lugs *b* on a cylindrical slide, E, on pole A, so that when the slide is run up toward cap B, the long arms D will be extended in the position shown in Fig. 2, tightening cords F, which connect these arms, and setting the apparatus ready to receive the clothes. As shown in Fig. 4, a vertically vibrating dog, G, is mounted in suitable bearings on slide E, which will be automatically forced to an engagement with a rack-bar, G', inserted in pole A by the recoil of a helical or other spring, S, arranged between the sleeve or runner E, and a thumb-plate, *d*, on the dog, thereby holding bars D extended. Rack-bar G' is of considerable length, and is provided with spaced perforations *i* throughout its entire length; conse-

quently when, from long use, cords F have been slackened, they may be drawn taut again by pressing down on thumb-plate *d*, thus disengaging the dog from the rack, and then raising the runner until the desired adjustment has been obtained, when by releasing the dog its end will be forced by the recoil of spring S to a re-engagement with the rack-bar G'. As shown in Fig. 4, rack-bar G' is provided with lateral flanges *j*, the object of which is to prevent the long arms D, which are pivoted to runner E, from being so operated upon by the force of the wind as to twist the short arms C loose, either from the cap B or from the long arms D. This result is obtained from the fact that the biting end *h* of the dog, even should it escape from perforations *i* in the rack-bar G', would strike against one of the flanges *j*, and would thus be arrested and prevent the runner from being rotated by the wind, thus effectually preventing the injury to the drier-frame above mentioned. In order that this dangerous rotation may be prevented even from the inception of the act of extension, the pole A is provided from rack-bar G' downward, as far as the long bars D are capable of reaching when folded, with a groove, *g*, in which the end *h* of the dog will run and will be held by spring S. By this means all danger of injuring the drier-frame is effectually prevented from any sudden wrench caused by a gust of wind or otherwise. Pole A, in practice, will be seated in the upper end of a base, H, and will be provided with a sleeve, *e*, having a flange, *f*, upon its upper edge at right angles to the length of the pole. It will also be provided with a small radial spur, *g'*. This sleeve is adapted to be received into the open upper end of a metallic capping, H', having a raised flange, *h'*, of the same diameter as flange *f*, upon which the flange *h'* is designed to be seated. Spur *g'* is received into a slit, *i*, cut in flange *h'* and engages in a groove, *l*, formed upon the upper edge of base H under capping H', so that when the said pole is turned slightly so as to throw the spur *g'* out of line with the slit, the pole and the drier arms attached thereto will be secured to the base beyond possibility of being blown out thereof, but may be readily detached therefrom when necessary by again

bringing the spur and slit in line, and then raising the pole out of the base H. In practice, base H will be permanently secured to a roof or buried in a drying-yard, and to prevent the hollow of the said base from being filled with water when the pole is removed, I use a plate, I, of circular form, which is pivoted by means of an arm, *n*, to the capping H' at *o*, and is adapted to be swung over the open upper end of the base so as to completely and accurately close it, a lug, *p*, being formed upon its under side which, engaging with slit *i'* in the flange of the capping, will effectually prevent a casual separation of the cover and capping.

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

1. In combination with post A, having sleeve E, with flange *f*, and spur *g'*, the metallic capping H', having flange *h'*, with slit *i'*, and the tubular base H, with groove *l*, substantially as specified, and for the purposes set forth.

2. In combination with the capping H', having flange *h'*, with slit *i'*, the vibrating plate I, having lug *p*, adapted to engage with the said slit, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

DANA B. LOVEJOY.

Witnesses:

R. W. BLACK,

E. A. LONGFELLOW.