

(No Model.)

2 Sheets—Sheet 1.

J. McKINNAN & A. JAMIESON.
CLOTHES DRIER.

No. 452,233.

Patented May 12, 1891.

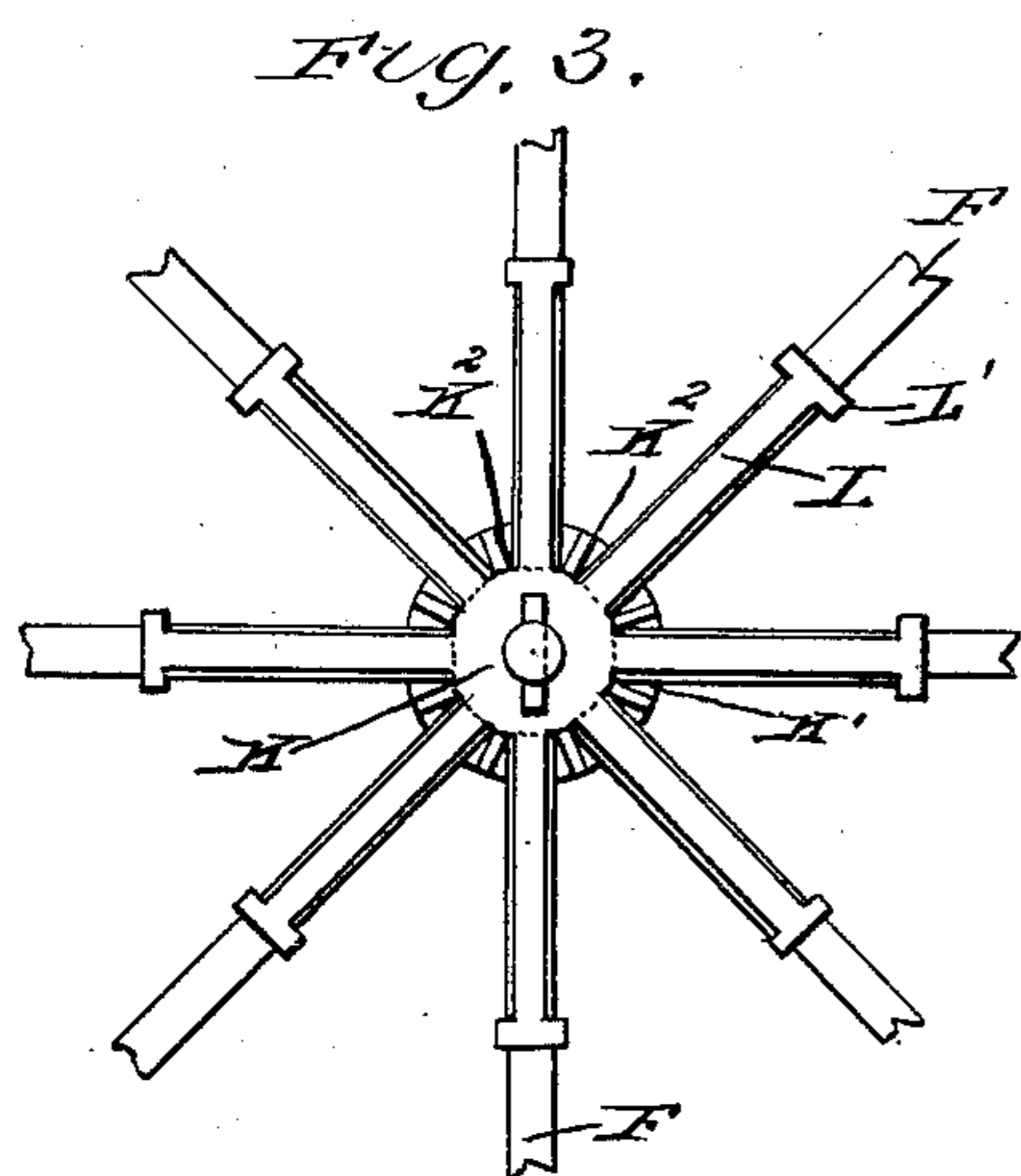
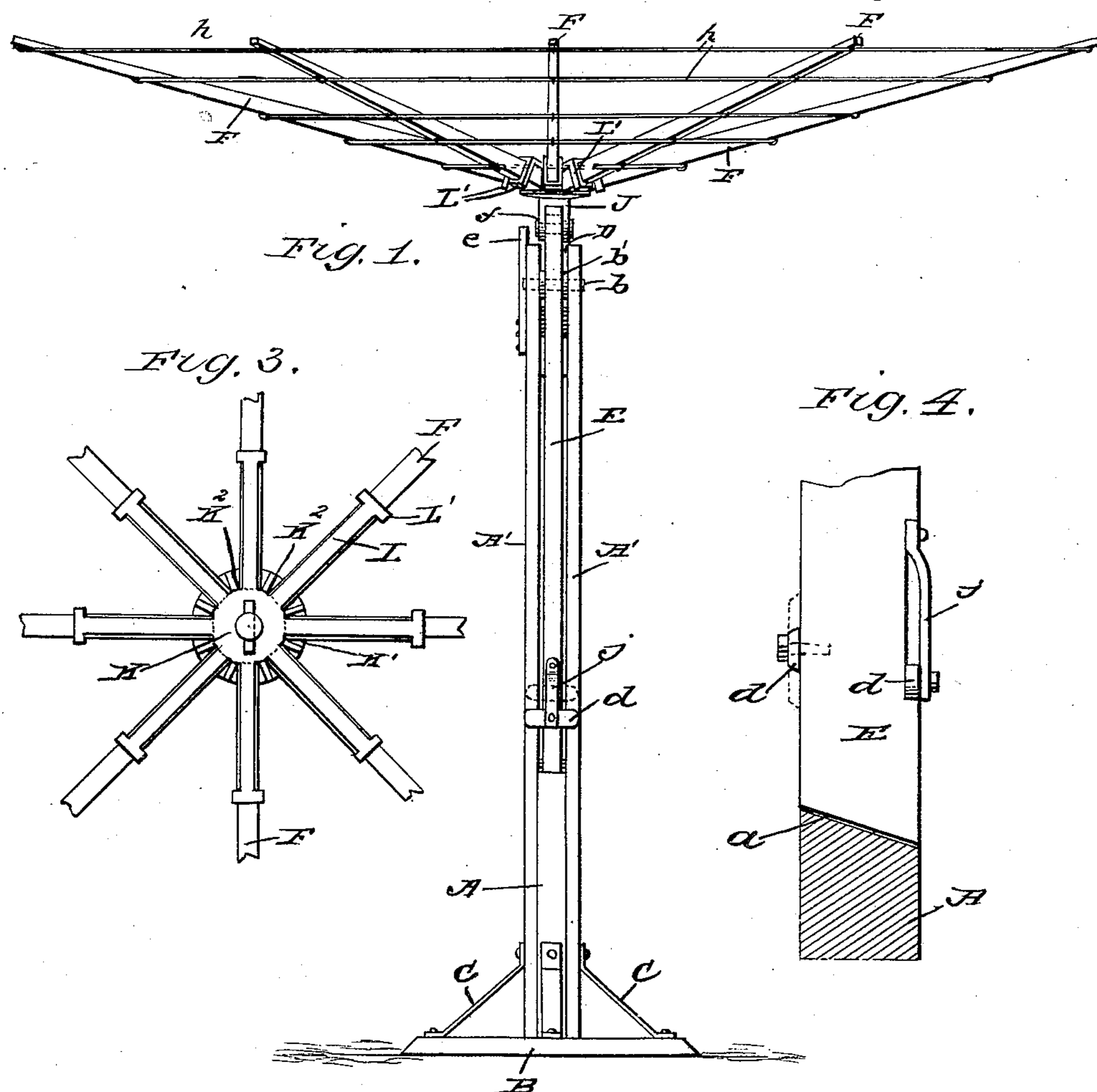


Fig. 4.

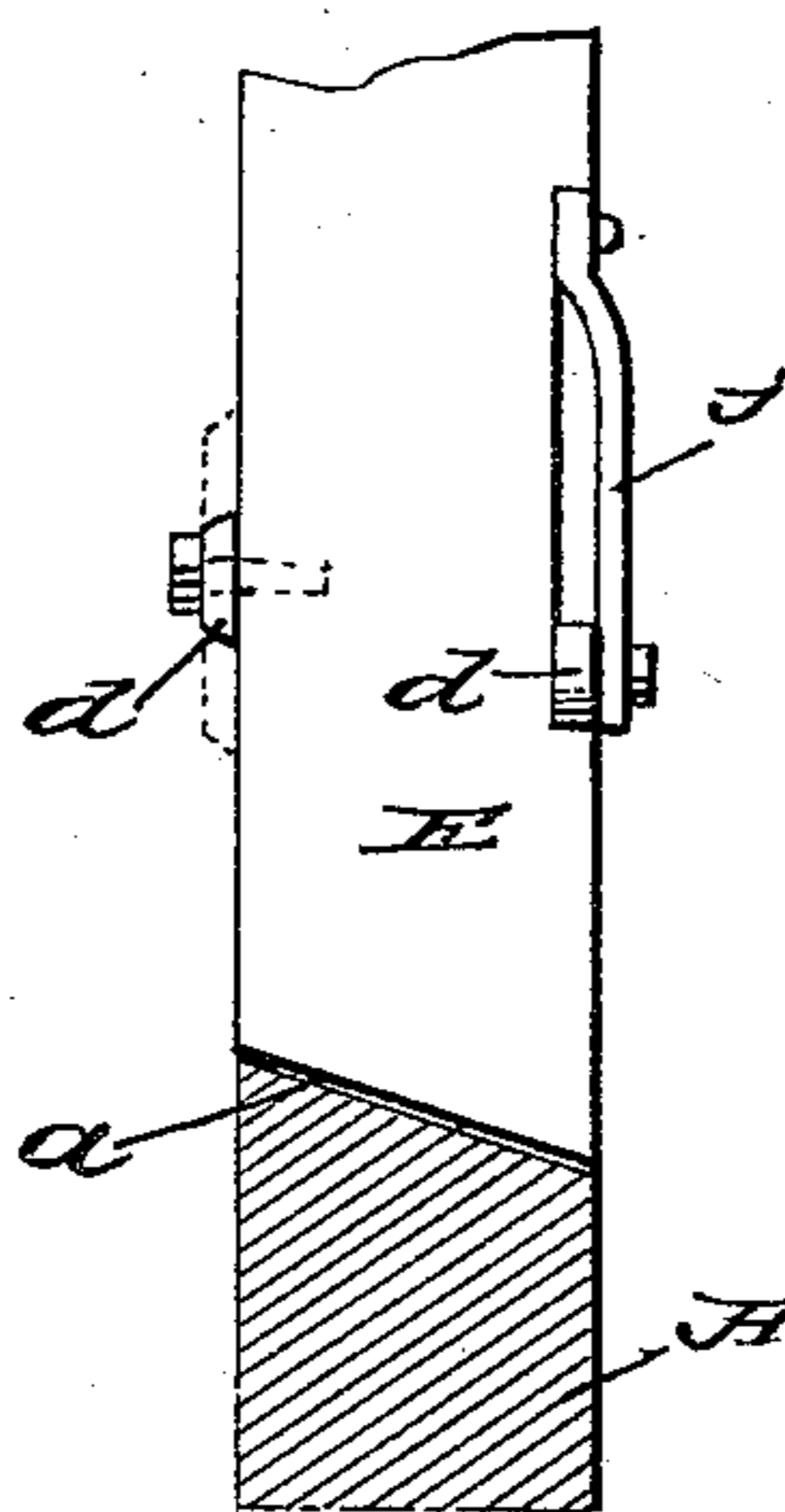
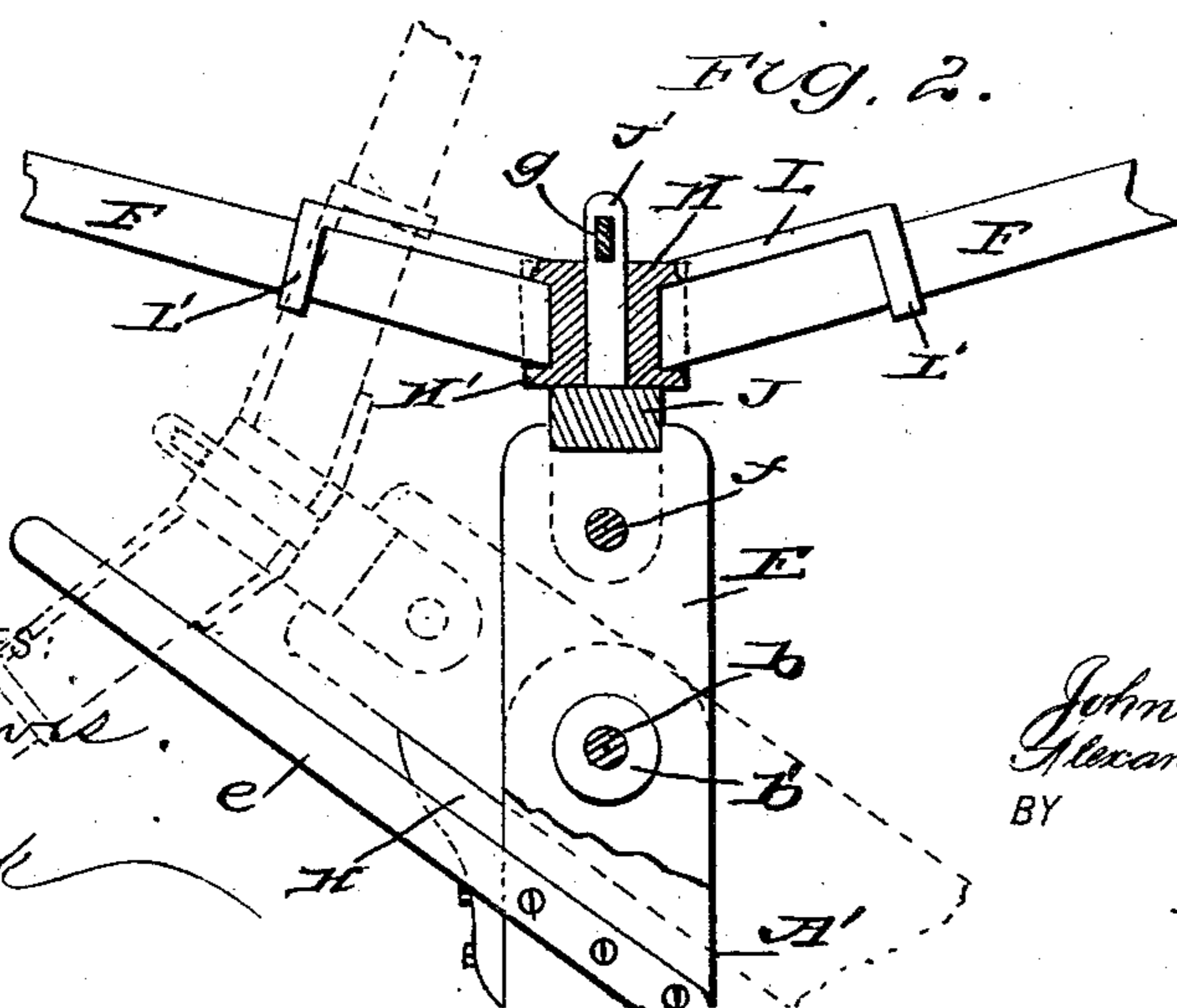


Fig. 2.



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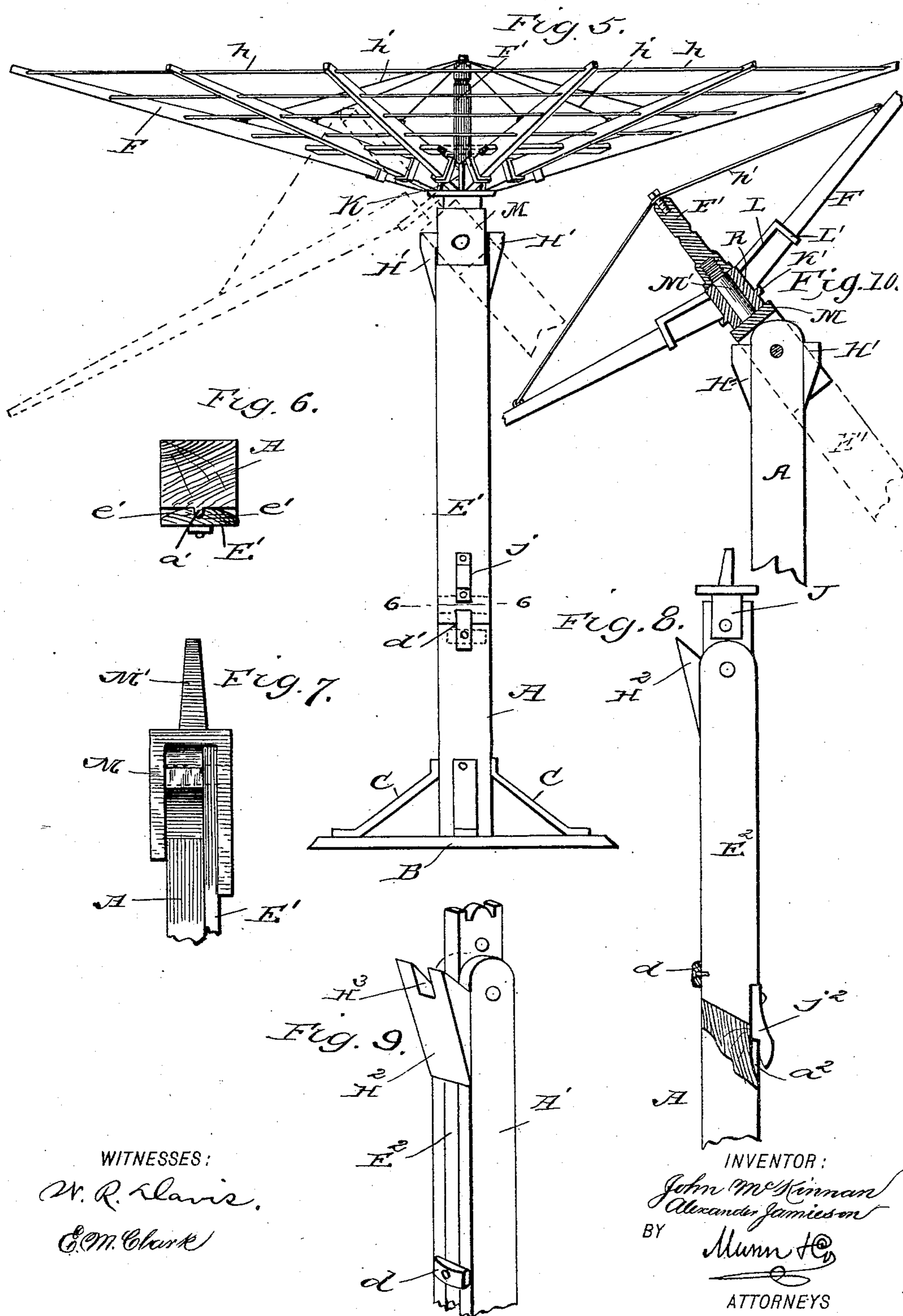
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UNITED STATES PATENT OFFICE.

JOHN MCKINNAN, OF SPOKANE FALLS, WASHINGTON, AND ALEXANDER JAMESON, OF MISSOULA, MONTANA.

CLOTHES-DRIER.

SPECIFICATION forming part of Letters Patent No. 452,233, dated May 12, 1891.

Application filed May 26, 1890. Serial No. 353,203. (No model.)

To all whom it may concern:

Be it known that we, JOHN MCKINNAN, of Spokane Falls, in the county of Spokane and State of Washington, and ALEXANDER JAMESON, of Missoula, in the county of Missoula and State of Montana, have invented a new and Improved Clothes-Drier, of which the following is a full, clear, and exact description.

Our invention relates to improvements in clothes-driers; and the object of our invention is to provide a simple, strong, and durable clothes-drier that may revolve with the wind, that will hold the clothes in an elevated position, and that may be tilted to enable the clothes to be easily placed upon the line.

To this end our invention consists in certain features of construction and combinations of parts, that will be hereinafter fully described, and specifically pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all of the figures.

Figure 1 is a front elevation of the device. Fig. 2 is a broken side elevation of the same, partly in section, and showing in dotted lines the rack inclined. Fig. 3 is a broken plan view of the same. Fig. 4 is an enlarged broken vertical section of the supporting-post and the shank of the drier. Fig. 5 is a front elevation of a modified form of the device. Fig. 6 is a cross-section of the post and shank on the line 6 6 of Fig. 5. Fig. 7 is a detail view of the clip which is pivoted to the top of the post and shank. Fig. 8 is a detail side elevation, partly in section, of a modified form of shank, showing the means of securing it in the supporting-post. Fig. 9 is a perspective view of the same; and Fig. 10 is a broken sectional view showing the connection between the rack-post and hub and the means for holding the rack in a tilted position.

The device is mounted upon a vertical post A, which may be provided with a base B and braces C, or may be planted in the ground in any suitable manner. The post is of a convenient height, and the upper portion thereof

is provided with a vertical slot D, which is open at the top and the lower portion of which terminates in an inclined portion *a*. Pivoted in the upper portion of the slot D between the two members A' of the post A is the depending shank E of the clothes-carrying rack, formed of the radially-extending arms F and their supports. The shank E should be of about the same width as the members A' of the post, and is pivoted between said members by the pin or bolt *b*, which passes through the shank and the members A' and is provided with suitable washers *b'*. The lower terminal end of the shank E is inclined, as shown, to fit upon the incline *a* at the bottom of the slot D, and the shank is provided upon its front and rear sides with buttons *d*, which may be turned so as to extend across the slot D and rest against the members A' of the post. The shank and connected rack may thus be held firmly in an upright position. The front side of the shank E is also provided with a suitable handle *j*, by means of which the shank may be pulled out of the slot D and tilted upon the bolt *b*, when desired.

Fixed to one of the members A' of the post, near the upper end thereof, is a projecting arm *e*, which engages an arm F of the rack when the latter is tipped down, as shown by dotted lines in Fig. 2, and prevents the rack from turning. Bolted to the back side of the members A' of the post is a stop H, which has an inclined upper face, as shown, and which limits the downward movement of the rack when the shank E thereof is tilted, as described.

Fixed to the top of the shank E is a metal clip J, which clasps the sides of the shank, and is fixed thereto by a bolt *f*. The clip J is provided with an upwardly-projecting pin-
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the J', upon which the clothes-carrying portion of the rack turns. Mounted loosely upon the pintle J' is a hub K, which is held thereto by a key *g*, which extends through the top of the pintle J', and which retains the hub upon the pintle, but allows it to turn freely.

The hub K, which is preferably of octagonal shape, is provided with an annular flange K' at the bottom, which rests upon the top of the clip J, with vertical ribs K², which

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extend from the corners of the hub, forming between them sockets for the inner ends of the arms F, and with radial arms L, which extend from the top sides of the hub and terminate in depending clips L', which clasp and support the arms F. The arms F extend radially from the hub K, their inner ends resting between the ribs K² of the hub, and pass through the clips L' of the arms L, which act as braces for the same.

The arms F should be of a convenient length and may be made of any suitable material, but are preferably made of wood. They are provided with suitable lines h, which extend from arm to arm and which should be a short distance apart. When clothes are to be placed upon the lines, the buttons d are turned in vertical line with the shank E. The lower end of the shank is pulled from between the members A' of the post A by means of the handle j, and this will cause the shank to tilt upon the bolt b, thus lowering the clothes-carrying rack and bringing the lines h within easy reach.

When the clothes are fixed to the lines, the rack is again placed in an upright position, where it will be securely held by the buttons d. It will be found that clothes may be very easily attached to this drier, and that they will dry rapidly by reason of its free movement in the air.

In Fig. 5 I have shown a modified form of the device, the rack being the same, except that it is provided with a vertical post F', from which radiate wire braces h', which are attached to the arms F and serve as supports for the same. The post F' is enlarged at the bottom and provided with a screw-threaded recess to enable it to be screwed to a support, as described below, although any suitable means may be employed to hold it in place. The post A is cut away on one side, and pivoted to the upper portion of the post is a shank E', which fits closely in the recessed side of the post, its lower end being held against the post by a suitable button d'. A boss a' on the post opposite the lower portion of the shank E' fits in a corresponding recess in the shank and prevents the shank from swinging, the shank having beveled portions e' opposite the recess to enable it to easily engage the boss a'. The shank is also provided with a suitable handle j', by means of which it may be operated. A clip M clasps the top of the post A and shank E', being fixed to the shank and pivoted to the post, so that the shank may swing easily upon the post. The clip M is provided with an upwardly-extending pintle M', upon which turns the hub K of the rack. The upper end of the pintle M' is screw-threaded, as best shown in Fig. 10, and fits in the recessed lower end of the post F', so that when the post is placed in position it is

screwed upon the pintle, and thus prevented from getting out of place. Suitable stops II' are fixed to the upper portion of the post A, and when the shank E' is swung the edges of the clip M strike said stops and limit the movement of the shank and rack.

The shank E² may be substituted for the shank E, as shown in Figs. 8 and 9, said shank being held in position between the members A' of the post A by a button d on one side and by the handle j² on the other, the handle being fixed to the lower portion of the shank so as to extend below the lower end of the same, and the post A having a recess a² opposite the lower end of the handle to enable it to be conveniently grasped. The members A' may be provided with a stop H², having a central slot H³ to receive the shank E² and limit the downward movement of the shank and rack. The clothes-drier having the modifications thereon is operated in the manner above described.

While we have shown a particular mechanism by which the drier is operated, we do not wish to confine ourselves to the precise construction described, as it may be greatly changed without departing from the principle of our invention.

Having thus fully described our invention, we claim as new and desire to secure by Letters Patent—

1. A clothes-drier consisting of a vertical post, an arm or shank pivoted at its upper end to the upper end of the post parallel therewith, a stop secured to the upper end of the post to limit the outward movement of the upper end of said arm or shank, a button locking the lower end of the arm or shank to the post, a pintle on the upper end of the said arm or shank, and a clothes-reel turning on said pintle, substantially as set forth.

2. A clothes-drier consisting of the vertical post A, cut away on one side and having a boss a' on that side, the shank E', pivoted to said cut-away side and having on its inner face a recess to receive the boss a', a button d', pivoted to the post A and engaging the lower end of the shank, a pintle on the upper end, of the shank, and a clothes-reel turning on said pintle, substantially as set forth.

3. A clothes-drier consisting of the vertical post A, cut away on one side and having a boss on that side, the shank E', pivoted to the cut-away side of the post and having a recess to receive said boss, a button d', a clip M on the upper end of the shank, and provided with a pintle M', a reel mounted on said pintle, and the stops II' H', substantially as set forth.

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