

(No Model.)

2 Sheets—Sheet 1.

H. ADLER.
CLOTHES DRIER.

No. 483,275.

Patented Sept. 27, 1892.

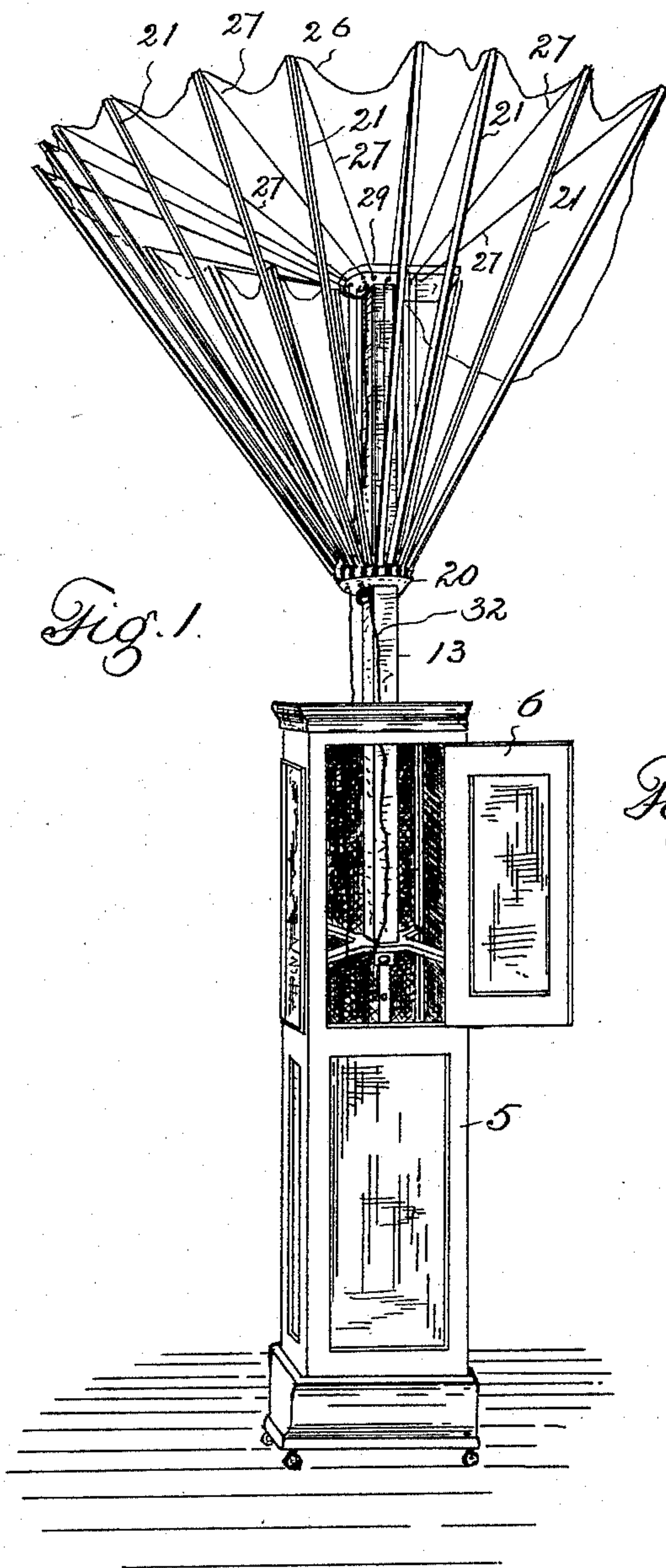


Fig. 1.

Fig. 2.

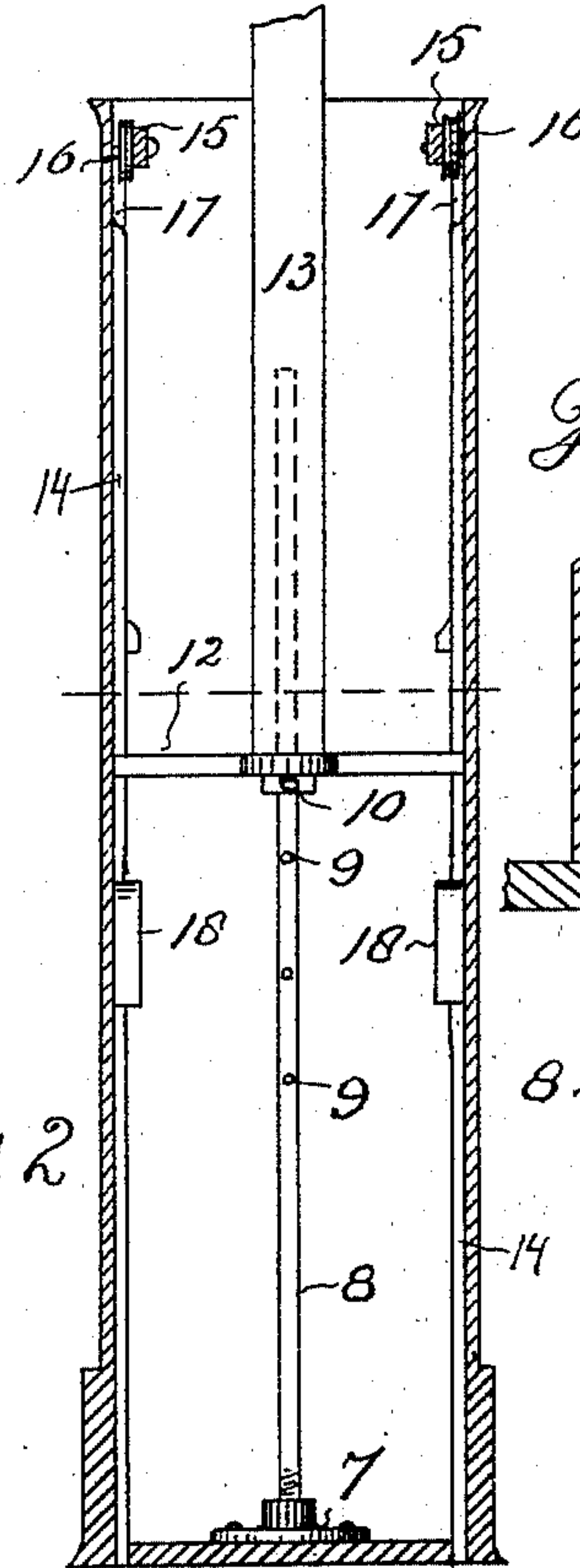


Fig. 4.

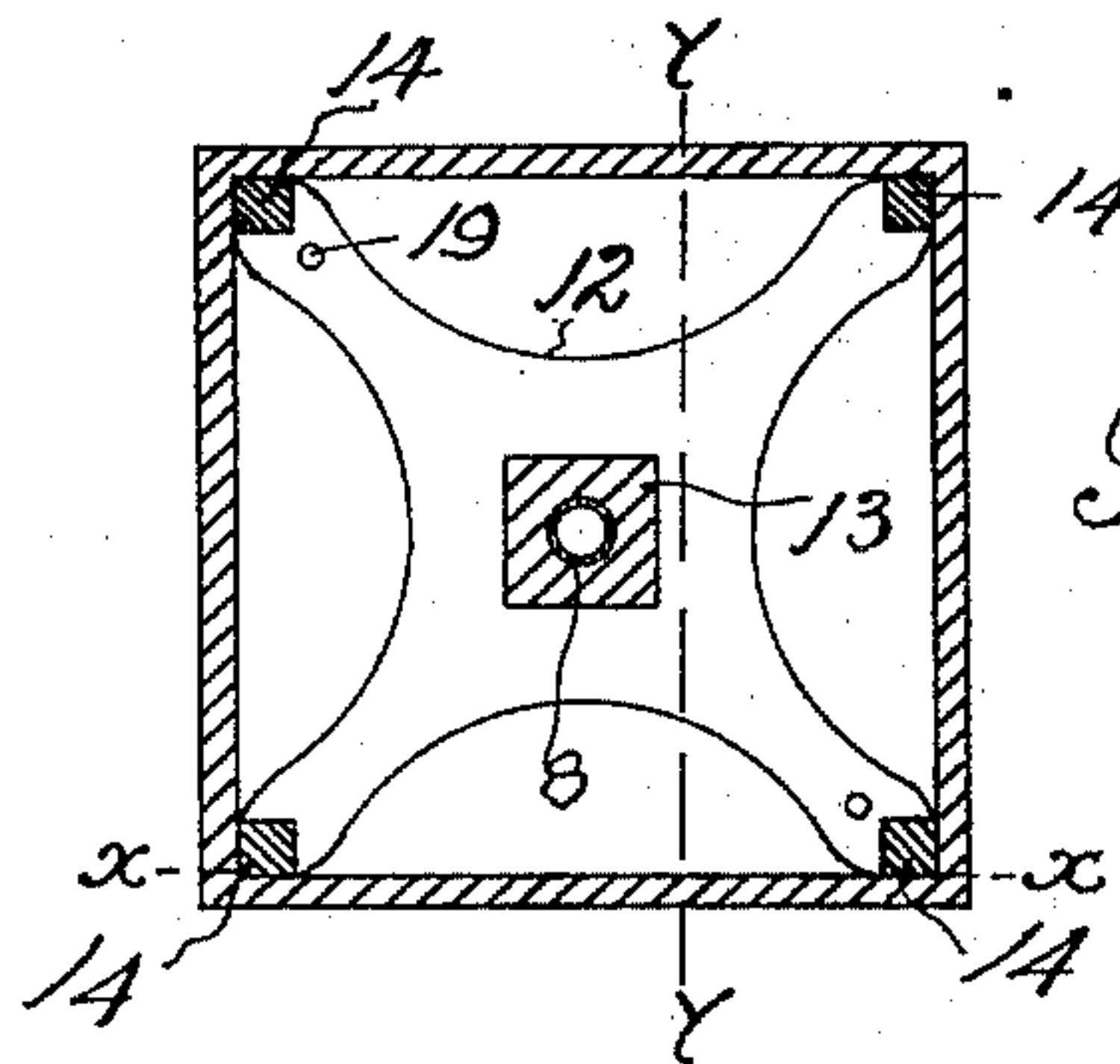
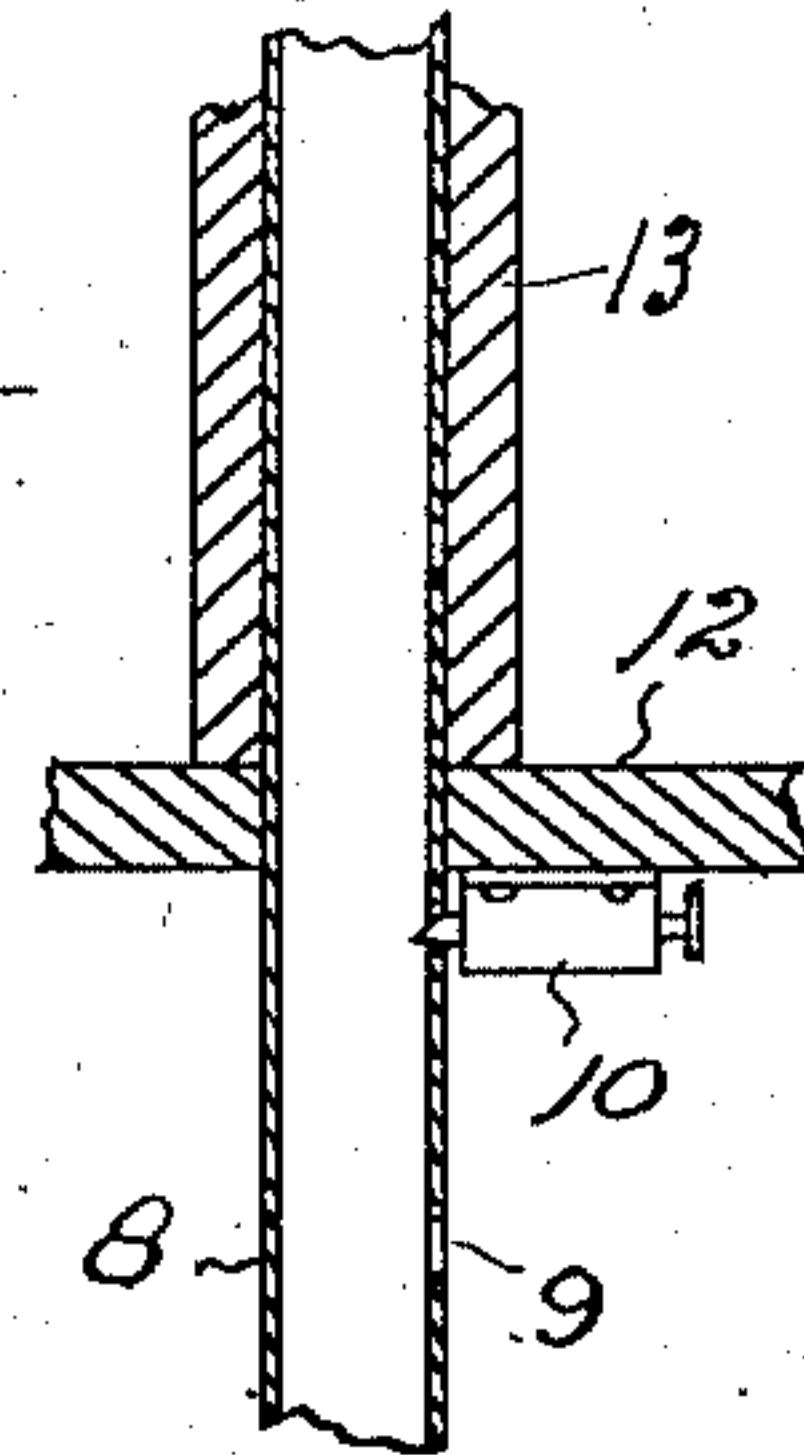


Fig. 3.

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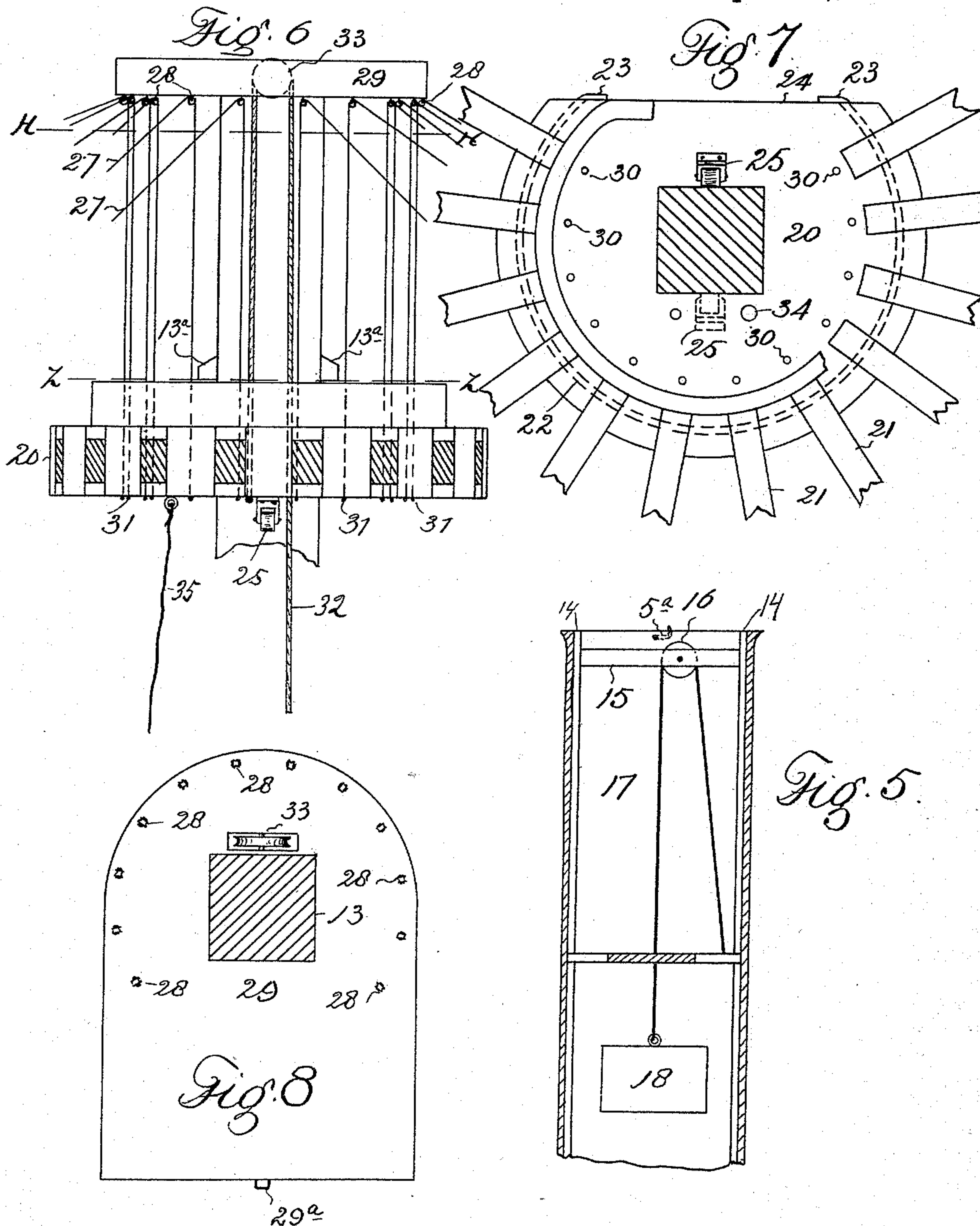
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2 Sheets—Sheet 2.

H. ADLER.
CLOTHES DRIER.

No. 483,275.

Patented Sept. 27, 1892.



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UNITED STATES PATENT OFFICE.

HATTIE ADLER, OF DENVER, COLORADO, ASSIGNOR OF ONE-HALF TO CARL C. MOLLERUP, OF SAME PLACE.

CLOTHES-DRIER.

SPECIFICATION forming part of Letters Patent No. 483,275, dated September 27, 1892.

Application filed November 6, 1891. Serial No. 411,020. (No model.)

To all whom it may concern:

Be it known that I, HATTIE ADLER, a citizen of the United States of America, residing at Denver, in the county of Arapahoe and State of Colorado, have invented certain new and useful Improvements in Cabinet Clothes-Driers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in cabinet clothes-driers; and the object of the invention is to provide a device of the class stated which shall be of simple construction, economical in cost, reliable, durable, and efficient in use, of perfect adjustability, of great capacity, and which when not in use may be concealed within a suitable cabinet or case.

To these ends my invention consists of the features, arrangements, and combinations hereinafter described and claimed.

In the accompanying drawings is illustrated an embodiment of my improved clothes-drier.

Figure 1 of the drawings is a perspective view of the device, showing the arms raised out of the case and partially spread. Fig. 2 is a longitudinal vertical section taken through the case on the line xx , Fig. 3. Fig. 3 is a transverse horizontal section of the same somewhat enlarged. Fig. 4 is a longitudinal section through the movable post and the stationary supporting-bar. Fig. 5 is a fragmentary longitudinal section taken through the case on the line yy , Fig. 3. Fig. 6 is an enlarged view, in elevation, of the upper part of the movable post and its attachments. Fig. 7 is a section taken on the line zz , Fig. 6, looking downward. Fig. 8 is a section taken on the line HH , looking upward.

In the views similar reference characters indicating corresponding parts or elements of the mechanism, let the numeral 5 designate a suitable cabinet or case mounted upon casters or rollers and provided with a door 6, located in its upper portion. This case is open at the top and closed at the bottom, being prefer-

ably constructed of wood. The bottom is provided on the inside with a metal plate 7, made fast thereto and provided with a threaded socket for the reception of the lower threaded extremity of a bar 8, provided with openings 9 for the reception of the bolt of a small lock 10, made fast to the lower side of a spider-shaped plate 12, secured to the foot of a hollow post 13, which is movable upon bar 8 and held in place when adjusted by the lock 10. The arms of plate 12 are notched, as shown in Fig. 3, to engage small guide-bars 14, secured in the corners of the case. In the upper portion of the case are located two bars 15 on opposite sides, to which are attached pulleys 16, over which pass cords 17, made fast at one extremity to weights 18 and at the opposite extremity to plate 12 at suitable points 19, as indicated in Fig. 3. These weights are utilized in raising post 13 and its attachments.

Slidingly supported upon post 13, above plate 12, is a plate 20, recessed for the reception of the inner extremity of the adjustable arms 21, which may be hinged thereto or pivoted thereon in any suitable manner. As shown in the drawings, these arms are pivoted on a single wire 22, passed around and through the recessed portion of the plate and bent down on the flat sides thereof, as shown at 23 in Fig. 7.

It is not supposed that the arms 21 will extend entirely around the plate 20 for ordinary house use. Hence this plate is made flat on the side 24, which is supposed to be turned next to the wall of the room in which the device is used.

Plate 20 is provided with antifriction-rollers 25, secured to the top and bottom thereof, respectively, and adapted to engage post 13 and reduce the friction to a minimum between the engaging parts of the plate, which slides on the post or moves with reference thereto.

The outer extremities of all the arms 21 are connected by a cord 26 of sufficient length to allow said arms to spread to their utmost capacity or occupy a horizontal position, which they do while in use.

To the outer end of each arm 21 is made fast one extremity of a cord 27, which passes

therefrom over a small pulley 28, secured to the under side of a plate 29, made fast to the top of the post 13. Cords 27 pass thence downward to plate 20, where their opposite 5 extremities are made fast, preferably by passing the cords through suitable apertures 30, formed in the plate therefor, and knotting them on the under side, as shown at 31. The position of arms 21 is regulated by adjusting 10 plate 20 on post 13. The length of cords 27 is so regulated as to permit the required spread of the arms and at the same time draw them to the closed or folded position when the plate 20 is drawn to its downward 15 limit of movement.

From the foregoing description the use and operation of my improved clothes-drier will be readily understood. Assuming that the device is concealed within the case 5, the door 20 6 is opened and part 13 unlocked from bar 8, after which post 13 is raised out of the case to a sufficient height by the weights 18, the gravity of which should be so regulated as to accomplish this purpose as soon as a slight 25 upward pressure is given plate 12 with the hands. When the post is raised out of the case to a sufficient distance, plate 20 is raised upward on the post by pulling on a cord 32, which is secured to plate 20 at one extremity, 30 passes upward over a pulley 33, attached to plate 29, and downward through an aperture 34, formed in plate 20, and thence into case 5 within reach of the person adjusting the device. Plate 20 is raised until the arms 35 21 occupy a horizontal position, which they will assume by gravity when plates 20 and 29 are brought sufficiently close together. Another cord 35 is secured to plate 20 and hangs downward into the case. By pulling 40 on this cord plate 20 is moved downward on post 13 and the arms 21 folded up thereagainst. Post 13 is then drawn downward into the case and locked on bar 8 and the door closed, thus entirely concealing the device 45 when not in use. The movable part is provided with stops 13^a, suitably located therein and adapted to engage plate 20 when the piv-

oted arms have reached the horizontal position.

The top of the cabinet is provided with a 50 hook 5^a, adapted to engage an eye 29^a, secured to the top of plate 29, and thus lock the device in place when lowered into the case, and thus prevent the possibility of its moving upward undesignedly. 55

As shown in the drawings, it will be observed lock 10 is only designed for use when the movable post is raised partially out of the case, as while the mechanism is in use, since 60 when the part is concealed within the case its lower extremity, to which the lock 10 is attached, is located at a point in the case too low for access through the opening of door 6.

Having thus described my invention, what I claim is— 65

1. In a clothes-drier, the combination, with a post, of a vertically-movable plate supported thereon, a stationary plate located above the movable plate and provided with pulleys, arms 70 hinged or pivoted to the movable plate, cords secured to these arms, passing over the pulleys of the stationary plate and secured to the movable plate, and suitable means for causing the movable plate to recede from or approach the stationary plate, according as it is 75 desired to open or close the pivoted arms, substantially as described.

2. In a clothes-drier, the combination of an upright cabinet or case open at the top, a fixed 80 standard located therein, a hollow post receiving the standard and vertically movable thereon, a guide-plate secured to the post and adapted to slide in the cabinet-frame, and weights connected with the post by cords passing over suitable pulleys attached to the cabinet-frame, the movable post being provided 85 with adjustable arms adapted to enter the cabinet at the top, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

HATTIE ADLER.

Witnesses:

WM. McCONNELL,
G. J. ROLLANDET.