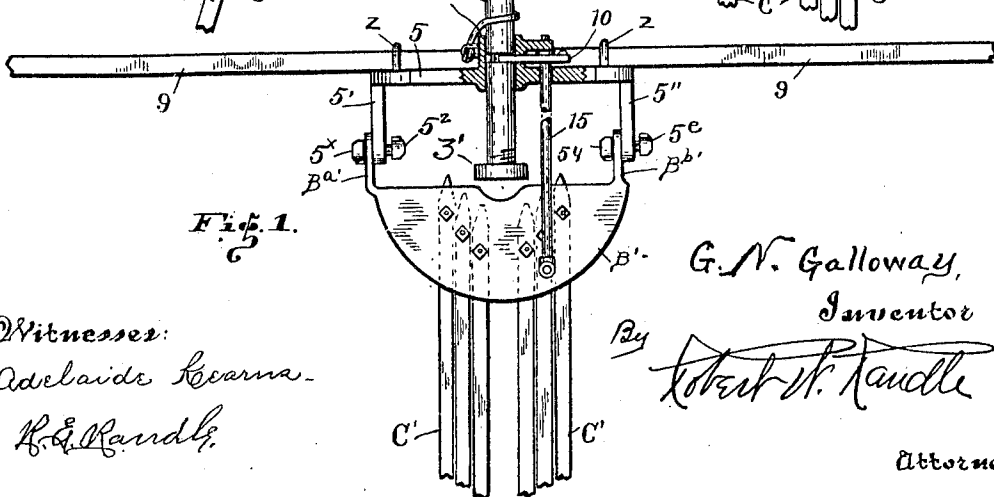
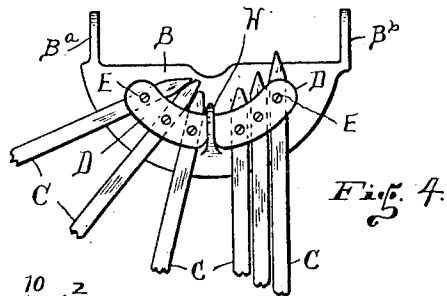
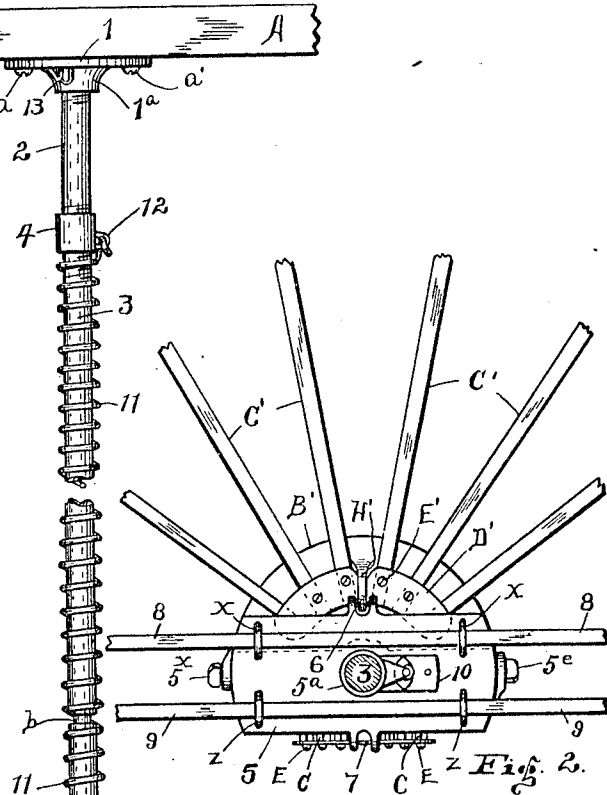
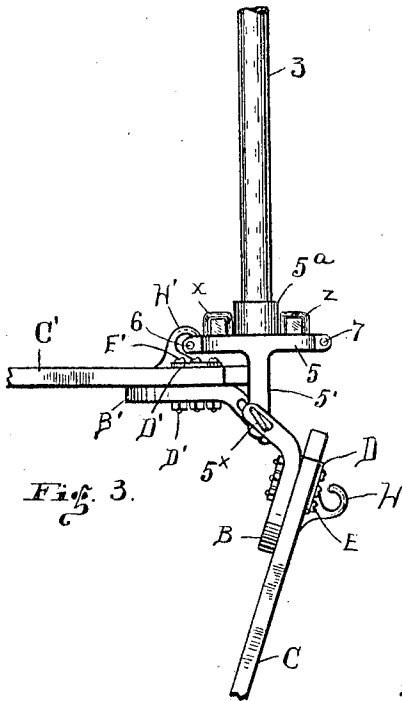


947,591.



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UNITED STATES PATENT OFFICE.

GILBERT N. GALLOWAY, OF ELWOOD, INDIANA.

SUSPENSION CLOTHES-DRIER.

947,591.

Specification of Letters Patent.

Patented Jan. 25, 1910.

Application filed April 5, 1909. Serial No. 487,960.

To all whom it may concern:

Be it known that I, GILBERT N. GALLOWAY, a citizen of the United States, residing in the city of Elwood, in the county of Madison and State of Indiana, have invented certain new and useful Improvements in Suspension Clothes-Driers, of which the following is a clear and comprehensive specification and exposition, the same being such as will enable others familiar with the art to which the invention pertains to make and use the same.

This present invention contemplates certain new and useful improvements over that covered in my Patent No. 909,579, dated January 12, 1909.

The object of my present invention is to provide a clothes-drier or rack of new and novel construction, having means whereby it may be suspended from a ceiling or the like, having means whereby it may be raised and lowered and which will be entirely out of the way.

Other objects and specific advantages of my invention will be brought out and made apparent in the course of the following description and that which is new will be correlated in the appended claims.

One manner for the accomplishment of the objects of my invention, and that which in practice has been found most desirable, is shown in the accompanying drawings, in which—

Figure 1 shows a side elevation of my invention, partly in operative position. Fig. 2 is a plan view, partly in section, of the body or movable portion of the invention, showing one of the wings in position and the other out of position. Fig. 3 is a side elevation of the parts shown in Fig. 2. Fig. 4 is a top plan view of one of the wings detached. And Fig. 5 is a detail plan view of the face of the ceiling plate.

Similar indexes designate like parts throughout the several views.

Referring now to the drawings in detail, I will describe the construction and operation of the invention as completely as I may.

The letter A denotes a ceiling or the like from which my invention may be suspended.

Numeral 1 denotes a round ceiling plate, having a central aperture from around which aperture projects the flange 1^a which is interiorly threaded. The plate 1 is adapted to be secured to the ceiling by the two

screws *a* and *a'* which are inserted in apertures in the plate 1 which are of substantially the same diameter as are the shanks of said screws and through which the heads of the screws can not pass. Also formed through said plate near each of the first named screw apertures are the larger apertures 1' and 1'' each being connected to one of the first named apertures by a slot as indicated. The width of said slots are the same as is the diameter of the first named apertures; and the diameter of the apertures 1' and 1'' is slightly greater than is the diameter of the heads of said screws. The centers of the first named apertures, and the apertures 1' and 1'', and also of the slots, are all equidistant from the center of the plate 1, all as indicated in Fig. 5. From the above it is apparent that when the plate 1 is secured to the ceiling it may be removed by simply loosening the screws *a*—*a'* and then giving the plate a slight turn to cause the screws to pass into the larger apertures, which will manifestly allow the plate to be removed without removing the screws, and also the plate 1 may be secured in position by a reversal of said operations.

The hanger comprises, preferably, the two members 2 and 3 which are connected by the coupling 4. It is evident, however, that the members 2 and 3 may be formed of a single length of material, such as metal tubing, or it may be formed of wood if desired.

Numeral 5 denotes the plate or body which I prefer to form in the shape of a parallelogram, except that the ends thereof are slightly rounded outward or convex as shown.

The index 3' denotes a cap removably secured on the lower end of the hanger to prevent the plate 5 from coming off the end thereof. Formed centrally through said plate 5 is an aperture which is of a size such as to neatly receive therein the hanger above referred to. Rigidly secured to the plate 5, or formed integral therewith, and rising therefrom around said aperture, is the flange 5^a, whose inner diameter is the same as is the diameter of said aperture in the plate 5.

A plurality of channels *b* are formed around in the periphery of the member 3, in which may engage the plunger 10 which is slidably mounted on the plate 5 and which is operable by the lever 15, the construction and operation of which, and the parts re-

lated thereto, being the same as is shown and claimed in my former patent above designated.

In this instance I provide two relatively long arms 8 and 9, which are disposed on top of the plate 5 longitudinally thereof and are located on opposite sides of the flange 5^a, and they project out beyond the ends of the plate 5 substantially as indicated in Fig. 1. Said arms 8 and 9 are retained slidably in position by the respective pairs of loops $x-x$ and $z-z$, through which said arms may slide endwise.

Extending down from the center of each end of the plate 5, and at right angles thereto, are the hangers 5' and 5'', formed integral therewith. Formed integral with or rigidly connected to the lower portion of the hanger 5' are the buttons 5^x and 5^z, the former extending outward and the latter inward; and formed integral with or rigidly connected to the lower portion of the hanger 5'' are the buttons 5^y and 5^e, the former extending inward and the latter extending outward. All of said buttons are located in alinement with each other horizontally. The heads of all of said buttons are flattened parallel to their shanks and they are disposed at acute angles to the hangers substantially as shown. The buttons 5^x and 5^y being at corresponding angles, and the buttons 5^z and 5^e being at corresponding angles and oppositely disposed to the former, all substantially as indicated in the drawings. The object in disposing said buttons angularly is to prevent the wings from being removed when they are hanging down or when they are extending out horizontally. Extending out from the center of each of the longer sides of the plate 5 is a pair of ears, spaced apart, and connected by a pintle 6, on one side, and pintle 7 on the other side of said plate, as indicated, same being for a purpose hereinafter made apparent.

Encircling the member 3 is a helical spring 11, its lower end being connected to the plate 5, and its upper end is secured in the eye 12 attached to the coupling 4, or if the hanger be formed in one piece of material then the upper end of said spring may be secured in the eye 13 which projects from the face of the plate 1. The spring 11 is normally contracted, but when the plate 5 is lowered it is elongated under tension, the tension thereof tending to assist in raising the plate 5, and the load thereon contained.

The parts yet to be described are two removable and interchangeable wings which are identical with each other, the parts of one being hereinafter designated by certain indices, while the parts of the other will be designated by like indices with exponents.

B and B' denote each a substantially half-round plate, having at their corners the two downwardly and inwardly extending arms

B^a—B^b, and B^{a'}—B^{b'}, respectively, which project at right angles to the straight edge of the plate and downwardly at an acute angle with reference to the surface of said plates, substantially as indicated in Figs. 3 and 4. Formed through the end portion of each of said arms, B^a, B^b, B^{a'} and B^{b'}, are slots, which are of such size as to allow the heads of said buttons to pass therethrough. Said slots are formed parallel with the axes of the arms in which they are formed. Said arms are formed offset with reference to the plates B—B', that is to say,—one of the arms of each pair commences a slight distance from the corner and extends from the straight side of the plate, while the other extends outward and then parallel with the other arm and it commences on the curved side of the plate and at the corner thereof, all substantially as indicated in Figs. 1 and 4. Pivoted on top of the plates B and B' are a plurality of arms C and C', respectively. Said arms are pivoted between the respective plates B and B', and the segmental washers D and D', respectively, each by bolt E, and E', respectively, which pass through the respective plates B and B' as indicated. Extending up centrally from the plates B and B' are the respective hooks H and H', which are adapted to engage the respective pintles 6 and 7, all substantially as shown in the drawings.

From the above it is apparent that the plate 1 may be secured to the ceiling of a room and the hanger extended down therefrom, with the body plate 5 slidably mounted to be moved up and down along the hanger and adapted to be secured at various points therealong as shown. It will now be seen that the plate B, for instance, may be placed in position by holding it at the proper angle and causing the buttons 5^x and 5^e to enter the slots in the respective arms B^a and B^b, then by turning the plate B up horizontally, and with the arms C projecting out horizontally, that it may be secured by allowing the hook H to engage over the pintle 7, or the plate B and the arms C, forming one of the wings, may be allowed to hang down as in Fig. 3. Also it will be seen that the plate B' may be likewise placed in position by inserting the buttons 5^y and 5^z in the slots in the respective arms B^{a'} and B^{b'}, as in Fig. 1, then allowing them to hang down as in Fig. 1, or it may be turned up horizontally and the hook H' engaged over the pintle 6, as in Figs. 2 and 3. The arms C and C' may be radiated out as in Fig. 2, or they may be bunched together as in Fig. 1. The long arms 8 and 9 may of course be inserted or withdrawn as desired. From the above it will be noticed that only one of said wings may be used if desired, the other being allowed to hang down as shown, or it may be entirely re-

moved. Or both of said wings may be removed and the arms 8 and 9 only employed.

Having now fully shown and described my invention and the best means for its construction to be known at this time, I desire that it be understood that various changes may be made in the details thereof without departing from the spirit of the invention or sacrificing any of the advantages thereof.

That which I claim and desire to secure by Letters Patent of the United States of America, is—

1. A clothes drier comprising, a ceiling plate, a vertically disposed hanger extending down from the ceiling plate, an oblong body plate slidably mounted on said hanger, a helical spring encircling said hanger and adapted to raise said body plate, an arm extending down from each end of said body plate and formed integral therewith, buttons extending out from the sides of said arms, a pair of wings removably pivoted on each side of said body-plate by means of said buttons, there being slots formed through said wings for said buttons to enter, hooks for securing either one or both of said wings horizontally, a pair of arms extending across and removably mounted on said body-plate, and means for removably retaining said ceiling-plate in position.

2. A suspension clothes-drier comprising: a ceiling-plate, a vertically disposed hanger

extending down from said ceiling-plate, a body-plate slidably mounted on said standard, an arm extending down from each end of said body-plate, buttons extending from the sides of each of said arms, a wing-plate hinged on each side of said body-plate by means of said buttons, a plurality of arms pivoted on top of each of said wing-plates, a hook extending up from each of said wing-plates, a pintle carried on each side of said body-plate for said hooks to engage with a pair of arms mounted on top of said body-plate, and means for securing said arms except as to endwise movements thereof.

3. A clothes drier comprising in combination, a ceiling-plate, a hanger extending down from said ceiling-plate, a body-plate slidable in said hanger, means for locking said body-plate at various heights, means for operating the body-plate and the locking means from below the standard, a spring for normally tending to raise said body-plate, a pair of wings removably pivoted on each side of the body-plate, and a plurality of radial arms pivoted to each of said wings.

In testimony whereunto I have signed this specification in the presence of two subscribing witnesses.

GILBERT N. GALLOWAY.

Witnesses:

MARY C. BROWN,
J. W. WIMER.