No. 818,228. PATENTED APR. 17, 1906.

E. BUTLER.

CLOTHES DRIER.

APPLICATION FILED MAR. 12, 1904.

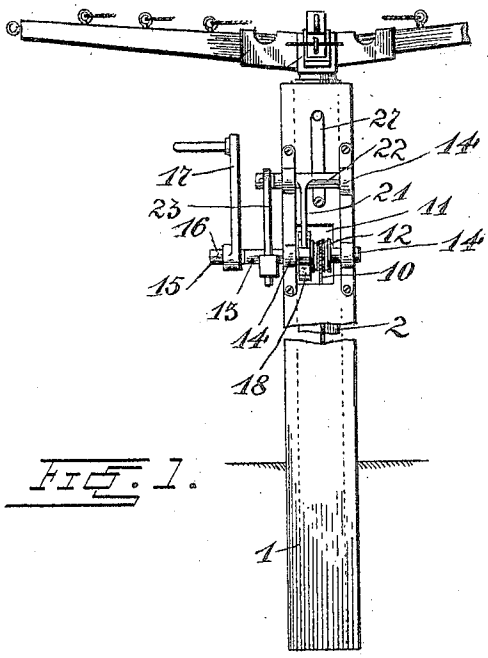


FIG. 1.

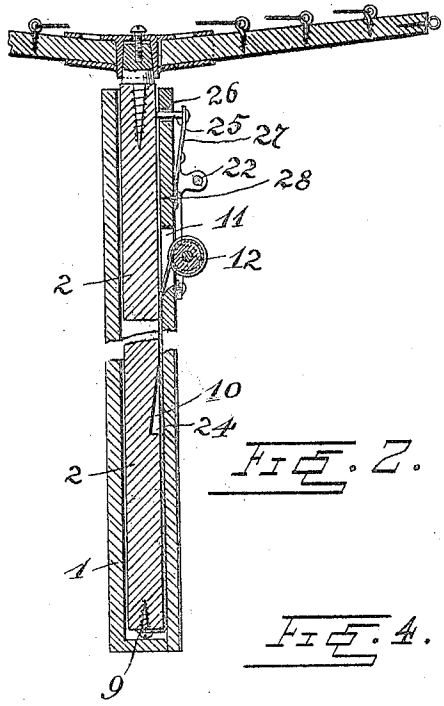
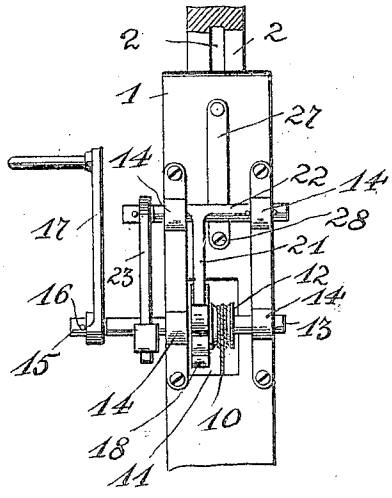
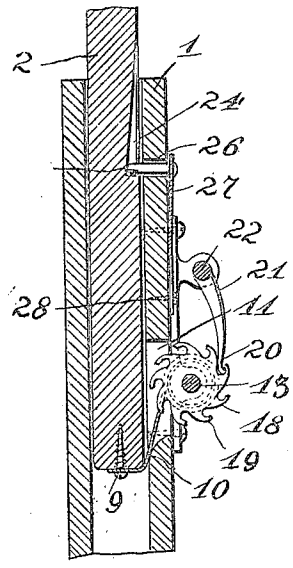


FIG. 2.

FIG. 4.

FIG. 3.





Witnesses

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ERNEST BUTLER, OF SHELDON, IOWA.

CLOTHES-DRIER.

No. 818,228. Specification of Letters Patent. Patented April 17, 1906.

Application filed March 12, 1904. Serial No. 197,847.

To all whom it may concern:

Be it known that I, ERNEST BUTLER, a citizen of the United States, residing at Sheldon, in the county of O'Brien and State of Iowa, have invented a new and useful Clothes-Drier, of which the following is a specification.

My invention relates to improvements in clothes-driers; and it consists of certain novel features of construction, combination, and arrangement of parts hereinafter described and claimed.

The object of my invention is to improve and simplify the construction and operation of devices of this character, and thereby rendering the same more efficient, convenient, and durable.

The above and other objects, which will appear as the nature of my invention is better understood, are accomplished by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation of a clothes-drier constructed in accordance with my invention. Fig. 2 is a vertical sectional view through the same. Fig. 3 is a detail elevation, on an enlarged scale, of the winding mechanism; and Fig. 4 is a detail vertical sectional view through the same.

Referring to the drawings by numeral, 1 denotes a stationary hollow post, preferably of square or rectangular form in cross-section and adapted to receive a similar shaped post 2, which telescopes into the same. Upon the upper end of the inner telescoping post is a head from which clothes to be dried may be suspended. This clothes-drying reel is adapted to be raised and lowered by sliding the inner post 2 into and out of the hollow post 1. The post 2 is thus operated by securing to its lower end, as at 9, one end of a cable 10, which passes upwardly between the said posts and out through a slot 11, formed in the hollow post 1 adjacent to its upper end. Said cable 11 is wound upon a drum 12 and has its other end secured thereto. This drum 12 is secured upon a shaft 13, which extends transversely across the slot 11 and is mounted in suitable bearings 14, which are secured upon the outside of the post 1 on each side of said slot 11. Upon one of the outer ends of said shaft 13, which end is cut away, as shown at 15, is removably secured, by means of a split pin or key 16, a crank-handle 17, by means of which said winding-drum may be rotated. In order to lock the drum against movement, and thus hold the telescoping post 2 at any desired elevation, I provide upon one side of the drum a ratchet-wheel 18, the teeth 19 of which are engaged by a head 20 of a pawl 21, which is secured upon a transversely-disposed shaft 22, mounted in the upper portions of the said bearings 14. Upon one of the outer ends of said shaft 22 is removably secured a weighted arm 23, which is so disposed as to hold the pawl 21 normally in engagement with the teeth of the ratchet-wheel 18 in order to prevent retrograde movement of said wheel. It will be seen that when the crank-handle 17 is turned in one direction the cable 10 will be wound upon the drum 12 and the inner post 2 will be raised to an elevated position and that when the weight-arm 23 is swung upwardly to disengage the pawl 21 from the ratchet-wheel the shaft 13, and hence the drum 12, will be permitted to rotate in the opposite direction, the weight of the post 2 causing it to descend or lower when the ratchet-wheel 18 is released by the pawl 21.

In order to limit the upward movement of the inner post 2, I provide adjacent to its lower end in one of its faces a notch or recess 24, which is adapted to be engaged by a stop-pin 25, provided adjacent to the upper end of the hollow post 1. This pin 25 projects through an opening 26, formed in said post 1 above the slot 11, and is secured upon the free upper end of a spring 27, which has its opposite end secured by a screw 28 upon the front face of said post 1. It will be seen that as the post 2 is elevated and its notch 24 alines with the opening 26 in the post 1 said stop-pin will spring into said notch, as shown in Fig. 4 of the drawings, thus limiting the upward movement of the post 2.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The herein-described clothes-drier, comprising the hollow stationary post 1 having the opening 26 near its upper end and the opening 11 below said opening 26, the spring 27 secured on said post, the stop-pin 25 in the opening 26 and secured to and pressed inwardly by said spring, the sliding post 2 in the hollow post 1 and having the notch 24 in

one side, said notch having the inclined side and the abrupt shoulder at the lower end of said side, a clothes-supporting reel mounted on said sliding post, the winding-drum mounted on one side of the hollow post and having the ratchet-wheel and the crank, whereby said drum and ratchet-wheel may be simultaneously rotated, the weighted pawl pivotally connected to the stationary post and engaging the ratchet to prevent rotation of the drum in one direction, and the cord attached to the winding-drum, passed through the opening 11 and attached to the lower end of the sliding post, said winding-drum and cord serving to raise the sliding post, said pawl and ratchet-wheel coacting with the drum and cord to support the sliding post in raised position, and said stop-pin and notch coacting to limit the upward movement of the sliding post.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ERNEST BUTLER.

Witnesses:
J. B. FRISBEE,
R. P. SCOTT.