Sept. 5, 1939. C. A. BYRNES 2,171,682

CLOTHES HANGER AND LOCK THEREFOR

Filed March 6, 1936 2 Sheets-Sheet 1

Fig. 1.

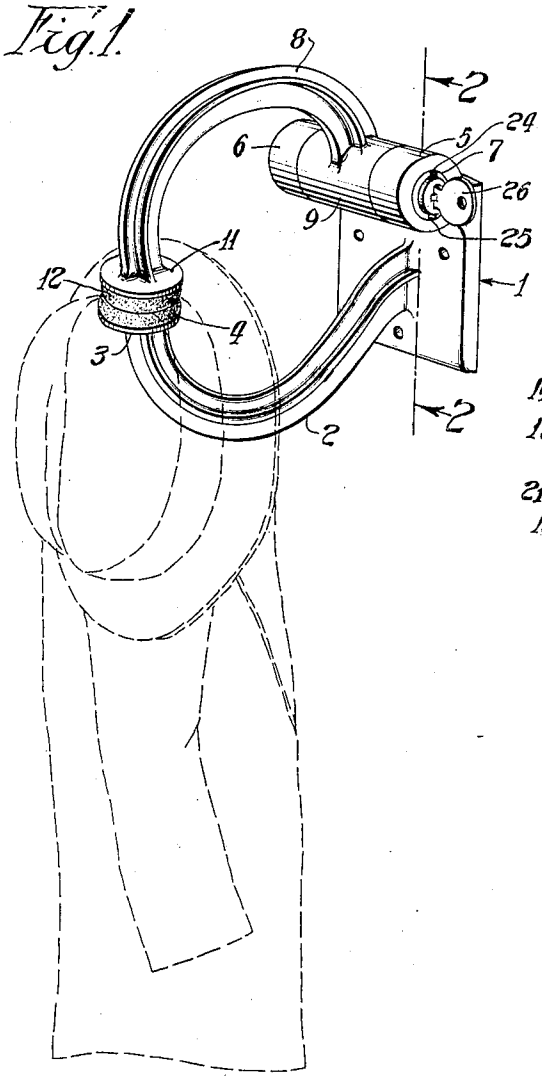
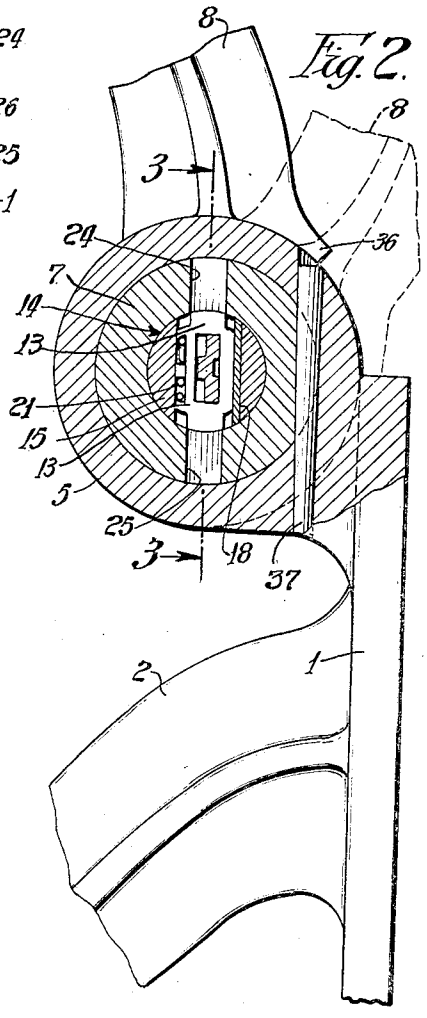


Fig. 2.



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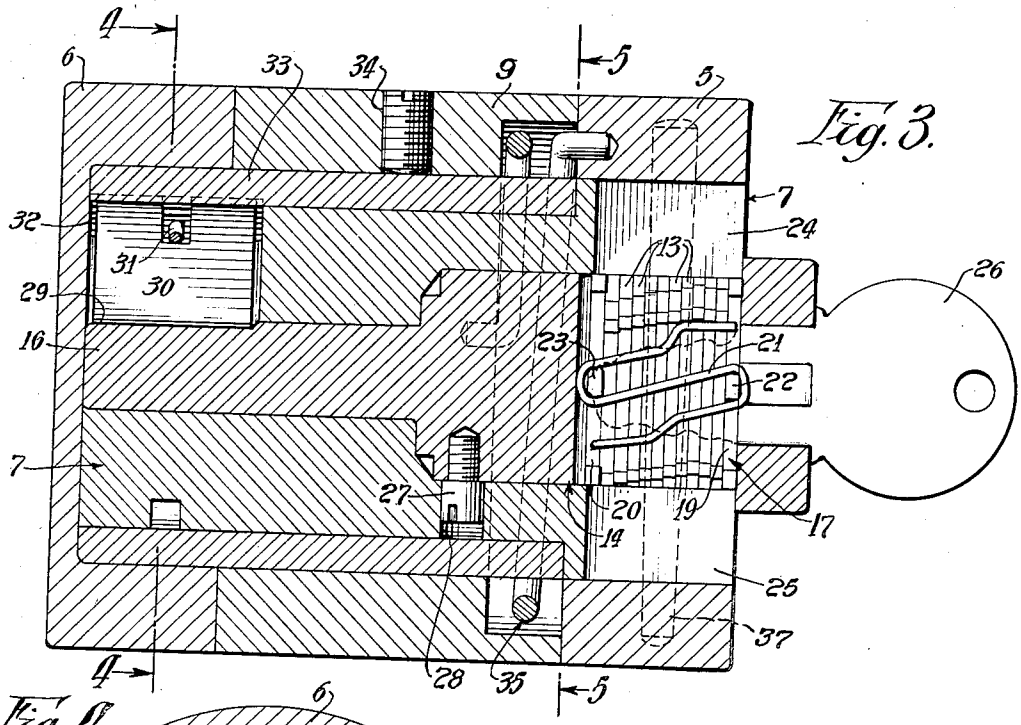


Fig. 3.

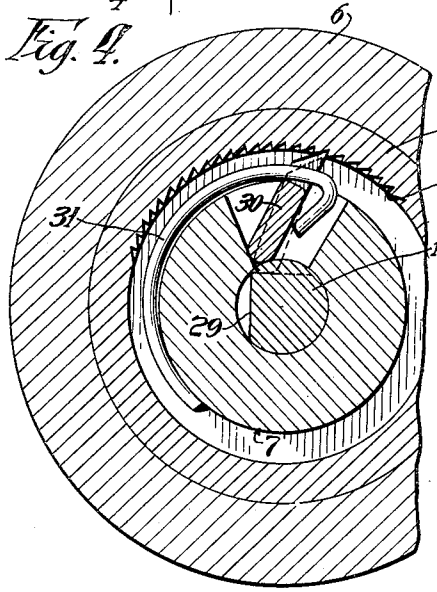


Fig. 4.

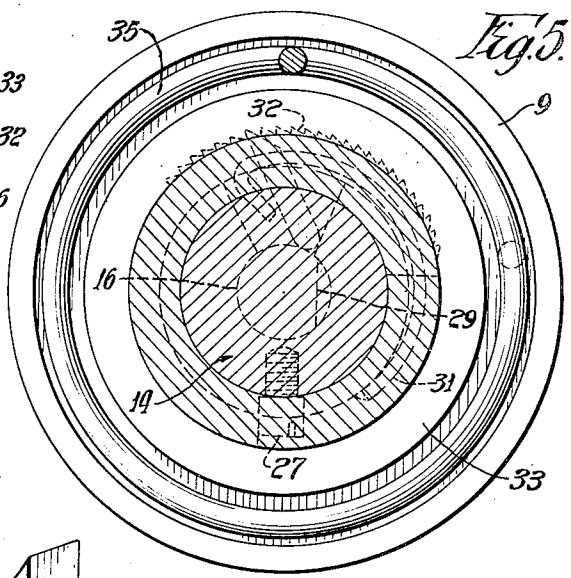


Fig. 5.

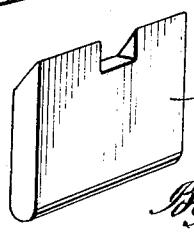


Fig. 6.

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2,171,682

UNITED STATES PATENT OFFICE

2,171,682

CLOTHES HANGER AND LOCK THEREFOR

Charles A. Byrnes, Chicago, Ill.

Application March 6, 1936, Serial No. 67,482

1 Claim. (Cl. 70—60)

This invention relates to locking devices for pivotally mounted members, generally, and more specifically to clothes hangers and locks therefor.

It is highly desirable in public places such as restaurants, lounges, halls, taverns and the like, that some means be provided to prevent the theft of hats and other garments of the patrons without incurring the expense to the patron and host incident to use of a checkroom and attendant therefor.

Due to the wide variety of thicknesses of the different garments and/or combinations thereof among the patrons desiring to utilize such means, it is also desirable and important that it be capable of adjustment, automatically, to accommodate any thickness of cloak and/or head-gear.

It is accordingly the primary object of this invention to provide a clothes hanger and lock therefor, suitable for use in public places, which gives the patron using it exclusive control of it and his hat or other garment thereon substantially throughout the time that he uses it.

Another object of this invention is to provide, in conjunction with such a hanger and lock therefor, means for accomodating any thickness of garment or plurality of garments.

Other and further objects of this invention will be apparent as the same becomes better understood from examination of the specification and claims in conjunction with the accompanying drawings wherein:

Fig. 1 is a perspective view showing a clothes hanger and lock therefor embodying this invention;

Fig. 2 is an enlarged fragmentary sectional view taken at the line 2—2 of Fig. 1;

Fig. 3 is a similar view taken at the line 3—3 of Fig. 2;

Fig. 4 is a fragmentary cross-sectional view taken at the line 4—4 of Fig. 3;

Fig. 5 is a similar view taken at the line 5—5 of Fig. 3;

Fig. 6 is an enlarged detail perspective view of the locking wedge or pawl.

Referring to the drawings more particularly, reference character 1 generally designates a metal bracket provided with an apertured base and adapted to be suitably attached to a wall as by screws or bolts. The bracket 1 is provided with an integral outwardly extending arcuate arm 2, the latter having an enlarged integral flat knob 3 on its outer end and forming a peg on which to hang garments. The upper face of the knob 3 is a horizontal and provided with a pad 4 of yieldable substance such as sponge rubber.

The bracket 1 is also provided with a pair of integral laterally spaced bosses 5 and 6 which support therebetween a combined lock cylinder and pivot pin 7 which pivotally supports a curved locking arm 8. The arm 8 has an enlarged integral bearings 9, at its pivoted end, mounted on the pin 7 and an enlarged integral flat knob 11 on its free end, the face of which is adapted when the arm is in locked position to contact or come in close proximity to the face of similar knob 3. The knob 11 is also provided with a pad 12 similar to pad 4.

The combined pin and lock cylinder 7 is provided with a longitudinal central aperture and a lock rotor 14 therein. The rotor 14 includes an enlarged portion 15 throughout about one-half of its length and a reduced portion or extension 16 throughout the other half. The enlarged portion 15, of the rotor 14, is slotted to receive lock tumblers 13 and a sheet metal mounting clip 17 therefor. The clip 17 comprises a back 18 (Fig. 2) and a pair of sides 19 and 20 (Fig. 3) bent at right angles from said back and embracing the tumblers 13 therebetween. A spring 21 anchored by lugs 22 and 23 on the sides 19 and 20, respectfully, acts on the tumblers 13 to normally tend to force them to engage cylinder 7 in a pair of diametrically opposite slots 24 and 25 therein. When a key 26 is inserted it will withdraw the tumblers from the slots 24 and 25 against the action of spring 21 to permit rotation of locking rotor 14. This rotation of locking rotor 14 is limited by a stop screw 27 in said rotor operating in a slot 28 in cylinder 7.

The extension or reduced portion 16 of the rotor 14 is substantially cylindrical in shape except for a flattened or cut-away portion 29 at its outer end. When the key 26 is turned to rotate the rotor to unlocked position (which is limited by stop 27), this portion 29 enters the bottom of a segmental recess in cylinder 7 and allows a pawl 30 therein under pressure of a spring 31 to drop out of engagement with the teeth of a ratchet-like broached surface 32 formed on the inner periphery of a locking cylinder 33. The cylinder 33 is fixed to the bearing 9 of the arm 8 by means of a setscrew 34. When the rotor is in locked position, as shown in Fig. 4, the arm 8 may be moved to any successively downward locking position, pawl 30 riding over teeth 32 as knob 11 approaches knob 3 but engaging said teeth to prevent any recession, and said arm will not be released until said rotor is unlocked and turned by key 26. Thus any thickness of garment or combination of garments may be accommodated.

The knob 11 depends downwardly and the knob 3 extends upwardly forming both a hook, peg or hanger for a coat and a rest for a hat, the former knob preventing withdrawal of either garment except when the key is inserted, when a coil spring 35, acting between boss 5 and bearing 9 and situated in a recess in the latter, raises said knob 11, stop 36 (Fig. 2) on the arm 8 limiting the raised position.

A pin 37 splines cylinder (rotor casing) 7 to boss 5 on bracket 1.

A patron may thus hang his own coat and hat on the device described, remove the key and, when ready to leave, reinsert the key and remove his coat and hat, the arm 8 rising and the key being held in the lock against removal until the arm 8 is again lowered to lock another garment.

Other and further advantages of the aforedescribed device will be apparent without further detail.

I am aware that many changes may be made and details varied without departing from the principles of this invention and I therefore do not wish to be limited to the details shown or described.

I claim:

The combination of a pair of spaced supporting bosses, a pivotal arm, a pivot pin therefor, a separably made sleeve surrounding said pin, part of its inner surface rotatably bearing thereon and a part of its outer surface rotatably bearing in one of said bosses, said arm being mounted on said sleeve and rotationally attached thereto, said pin being rotationally fixed relative to the other of said bosses, said pin being provided with a peripheral recess, said sleeve being provided with an inner cylindrical ratchet surface, a pawl-like locking wedge in said recess engageable with said surface and a locking rotor in said pivot pin provided with relatively varied surface portions for operating said wedge.

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