

UNITED STATES PATENT OFFICE.

EARL BOYNTON, OF SYRACUSE, NEW YORK, ASSIGNOR OF ONE-HALF TO FRANK E. VAN DUYNE, OF AUBURN, NEW YORK.

HAT, COAT, AND UMBRELLA RACK.

No. 872,107.

Specification of Letters Patent.

Patented Nov. 26, 1907.

Application filed April 25, 1907. Serial No. 370,126.

To all whom it may concern:

Be it known that I, EARL BOYNTON, a citizen of the United States, and resident of Syracuse, in the county of Onondaga, in the State of New York, have invented new and useful Improvements in Hat, Coat, and Umbrella Racks, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to the class of combined hat-coat- and umbrella-racks which are provided with a lock for preventing unauthorized persons from removing the articles from the rack. And the invention consists in an improved construction and combination of the component parts of a rack which possesses great stability and efficiency, and is capable of automatically increasing its resistance of an unauthorized attempt of a removal of the articles from the rack.

In the accompanying drawings Figure 1 is a side view of a rack embodying my invention; Fig. 2 is a transverse section through the line —*x—x*— in Fig. 1; Fig. 3 is a view of the underside of the supporting bracket of the rack; Fig. 4 is a side view of the said bracket; Fig. 5 is a detached side view of the hat and coat locking arm; Fig. 6 is a fragmentary face view of the lock-case showing the key-hole in position for preventing the withdrawal of the key, when the locking arm is raised to release the hat and coat from their supporting hook; and Fig. 7 is a fragmentary view of the lock-case with the key inserted.

Similar letters of reference indicate corresponding parts.

Referring to said drawings —*A*— represents the supporting bracket, which is provided with a screw —*a*— or other suitable means for attaching it to the wall or a post or other convenient object. Said bracket is formed with an annular case —*E*— and a hook —*C*— which extends forwardly from said case and is designed to receive upon it the coat and hat to be taken care of thereby.

In the center of the case —*E*— is pivoted the cap —*B*— which is provided with a flange fitted to the inner periphery of the case —*E*—. Said flange is formed with a segmental ratchet —*E*¹— for the purpose hereinafter explained. From the said flange extends the guard-arm —*D*— suitably shaped to allow the free end thereof to bear

on the top of the hook —*C*— or on the articles placed on said hook. An important feature of the said guard-arm resides in the novel construction of the free end thereof, and consists of the jaw —*D*¹— which is pivoted eccentrically to the guard-arm as shown at —*b*— and preferably formed with a serrated face —*b*¹— presented toward the top of the hook —*C*—. Said jaw tilts so as to automatically reinforce its grip upon the article placed on the hook when attempt is made to withdraw said article from the hook while the guard-arm is locked in its operative position as hereinafter described.

To a lateral extension —*A*¹— of the base of the supporting-bracket —*A*— is attached by means of screws —*l—l*— or otherwise rigidly secured a hanger —*H*— the lower end of which terminates in a horizontally extending tongue —*I*—.

To the cap —*B*— is firmly attached a retaining-arm —*J*— by means of a screw —*p*— and a pin —*q*— inserted at the side of the screw. The lower end portion of the arm —*J*— is curved rearwardly and terminated horizontally to meet the end of the tongue —*I*— of the aforesaid hanger as shown in Fig. 1.

The meeting ends of the hanger —*H*— and arm —*J*— are formed with coinciding notches —*d—d*— preferably semicircular as shown in Fig. 2 to grasp between them the stem of an umbrella adjacent to the handle thereof and thus support the umbrella in a suspended position.

To the inner face of the case —*E*— at —*r*— are pivoted two dogs —*e—e*— of different lengths to engage the ratchet —*E*¹— of the cap —*B*— at different points in the length thereof as shown in Fig. 1. The said engagement of one or both of the said dogs with the ratchet —*E*— locks the guard-arm —*D*— and the retaining arm —*J*— in positions to retain the coat and hat on the hook —*C*— and confine the umbrella between the hanger —*H*— and arm —*J*—. By the use of the two dogs —*e—e*— of different lengths the arm —*D*— can be locked in different positions to retain on the hook —*C*— garments of different thicknesses. Said dogs are pressed into the aforesaid engagement by means of two springs —*f—f*— which are wound at their central portions around the hub —*h*— formed on the center of the case

—E—. One of the ends of each of said springs bears on one of the dogs —e—, while the opposite end of said springs rests on a lug —i— formed on the case —E— as shown in dotted lines in Fig. 1. Another spring —j— is wound at one end around the hub —h— and suitably fastened thereto, while the opposite end of said spring bears on a lug —k— formed on the cap —B— which is integral with the guard-arm —D—. Said spring operates to throw the said guard-arm from the hook —C— when the ratchet —E¹— is released from the dogs —e—e—.

The guard-arm passes through an opening —m— in the flange or peripheral wall of the case —E— shown in Fig. 4. Said opening is of a length to permit the guard-arm to move as aforesaid to a limited degree sufficiently to allow a coat and hat to be placed on the hook —C— or to be removed therefrom.

The case —E— is provided with a key-hole —n— for the reception of a key —o— which is formed with a guard —o¹— adapted to press on the heels —e¹— of the dogs —e—e— so as to throw said dogs out of engagement with the ratchet —E¹— by the turning of the key in the case. The disk —B— is thus allowed to be turned by the force of the spring —j— to the position shown in Fig. 6. Said movement of the disk swings the guard-arm —D— up from the hook —C— and thus allows a coat and hat to be placed on said hook or to be removed therefrom. The heels —e¹— of the dogs —e—e— are limited in length to allow them to slip from the end of the key-guard —o¹— after the dogs have been thrown out of engagement as aforesaid. The guard-arm —D— is in the meantime held in its raised position by the action of the spring —j—.

The heels —e¹—e¹— of the dogs are sufficiently near to the wall of the cap —B— to prevent the guard —o¹— from being returned to a position to register with the slot in the key-hole after the key has passed under the heels —e¹—e¹—. The key is thus confined in the case —E— while the guard-arm is in its raised position. The flange of the cap —B— is provided with an opening —r¹— which is remote from the key-hole —h— when the guard-arm —D— is raised from the hook —C—. In depressing the said guard-arm so as to bear on the hook —C— or on articles placed on said hook, the cap —B— is turned sufficiently to carry the opening —r¹— to a position directly opposite the key-hole and thus the key is allowed to be removed from the case —E—.

To the described rack, preferably to the front of the guard-arm —D— is attached a disk —s— presenting a certain number corresponding to a number marked on the key —o— as shown in Fig. 7 for the purpose of identifying the key with the rack.

What I claim as my invention is:—

1. The combination of the annular case formed with a coat and hat-hook and a key-hole, an annular cap pivoted to the center of the case and having its peripheral flange inside of said case and formed with a segmental ratchet and with an opening carried to and from the key-hole by the turning of the cap, a guard-arm formed integral with the cap and disposed over the aforesaid hook, spring-actuated dogs of different lengths pivoted to the case and engaging the ratchet, and a key provided with a guard adapted to press outwardly on the heels of the dogs and beyond the same, said guard being of a length to confine it between the heels of the dogs and the flange of the cap.

2. The combination of the stationary annular case formed with a coat-and hat-hook, a cap pivoted to the center of said case and having its peripheral flange inside of the case and formed with a segmental ratchet, a guard-arm formed integral with said cap and disposed over the aforesaid hook, spring-actuated dogs engaging the ratchet, a key adapted to throw said dogs out of engagement, and a jaw pivoted eccentrically to the end of the guard-arm to automatically reinforce the gripping action of the jaw by draft exerted on the article held by the jaw.

3. The combination of the stationary annular case formed with a coat-and hat-hook and provided with a key-hole, a cap pivoted to the center of the case and having its peripheral flange inside of said case and formed with a segmental ratchet and with an opening in the flange in proximity to the key-hole, a guard-arm formed integral with the cap and disposed over the aforesaid hook, spring-actuated dogs engaging the ratchet, and a key provided with a guard disposed to press outwardly on the heels of the dogs and become confined between the bottoms of the aforesaid heels and flange of the cap substantially as set forth.

4. The combination with the supporting bracket and annular case on said bracket, a cap pivoted to the center of said case and having its peripheral flange disposed inside of the case and formed with a segmental ratchet, spring-actuated dogs pivoted to the case and engaging the ratchet, a key adapted to throw the dogs out of engagement, a hanger attached to the supporting bracket and terminated in a horizontal tongue formed with a notch in its end, and a retaining arm rigidly attached to the aforesaid cap and having its end disposed to meet the end of the aforesaid tongue and formed with a notch as and for the purpose set forth.

EARL BOYNTON.

In presence of—

J. J. LAASS,
JOSEPH BOND