K. DETZNER.

UMBRELLA STAND.

APPLICATION FILED APR. 26, 1910.

971,977. Patented Oct. 4, 1910.

Fig: 1.

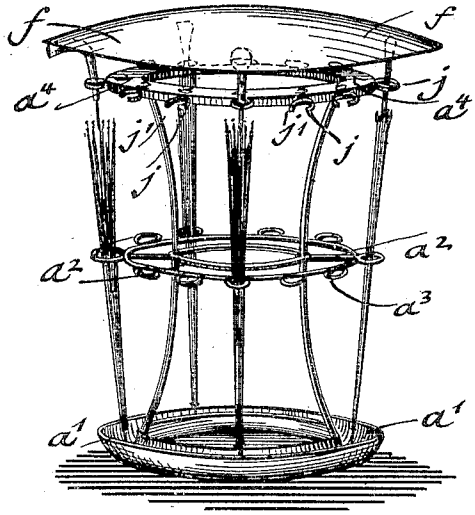


Fig: 2.

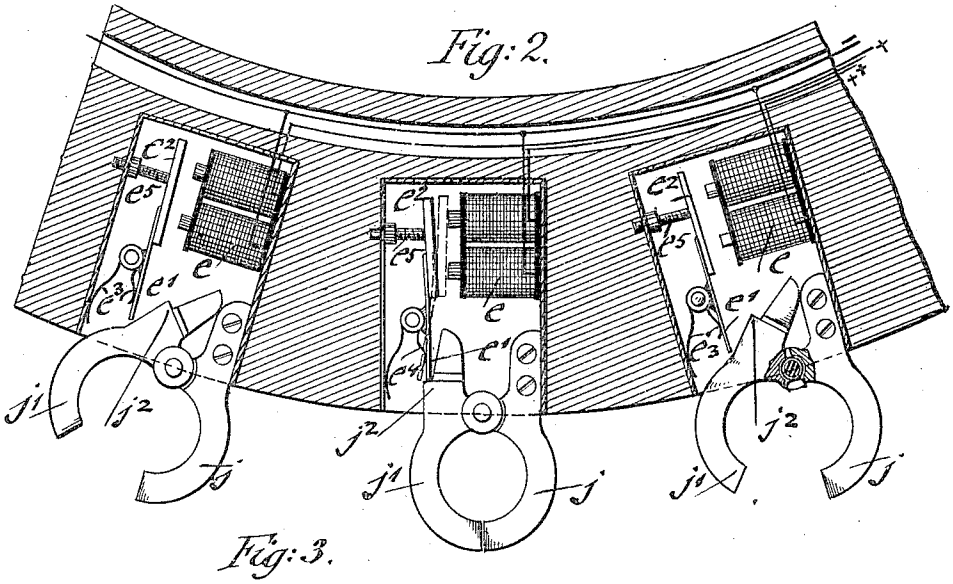
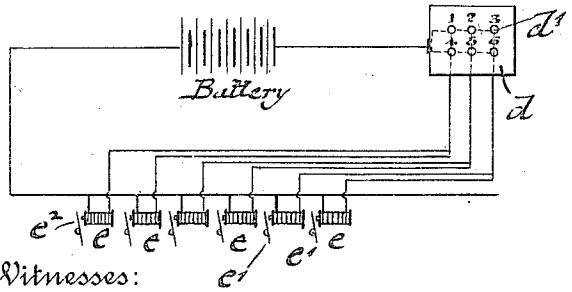


Fig: 3.



Witnesses:

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UMBRELLA-STAND.

971,977. Specification of Letters Patent. Patented Oct. 4, 1910.

Application filed April 26, 1910. Serial No. 557,786.

To all whom it may concern:

Be it known that I, KARL DETZNER, a citizen of the United States of America, residing in Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Umbrella-Stands, of which the following is a specification.

This invention relates to an improved stand for umbrellas, canes and hats to be used in barber-shops, restaurants, hotels, museums and other places for retaining the articles safely for a certain length of time and returning them to the owners when they leave the barber-shop, restaurant or other place.

In barber-shops, restaurants and other places where a large number of people gather, it frequently occurs that umbrellas, overcoats, hats and the like are inadvertently or intentionally exchanged to the great annoyance of the respective parties.

The object of this invention is to furnish an improved stand by which the umbrella or other article is retained firmly in position, without being capable of removal therefrom by any party except by the one who knows the number of the umbrella or other article and whose umbrella is released by giving the number to the clerk or other attendant in the barber-shop or other public place, who by depressing a push-button on a switchboard releases the umbrella so that the owner can remove the same from the stand; and the invention consists of an umbrella-stand provided with a plurality of locking jaws arranged on the stand and operated by electro-magnets having spring-actuated armatures adapted to lock one of a pair of jaws, which movable jaw in connection with a stationary jaw locks the umbrella in position on the stand when the same is placed between the jaws, said electro-magnet being placed in circuit with a battery and switchboard having as many push-buttons as there are electromagnets on the stand so as to release the movable jaw on closing the circuit, and releasing thereby the umbrella or other article held by the jaws.

In the accompanying drawing, Figure 1 represents a perspective view of my improved umbrella-stand showing several umbrellas held in position therein, Fig. 2 is a detail plan-view partly in horizontal section of the mechanism for locking the umbrella to the stand, drawn on a larger scale, and Fig. 3 is a plan-view showing a diagram of an electric circuit showing the connection of the locking devices on the stand with a switchboard and a battery.

Similar letters of reference indicate corresponding parts throughout the different figures.

Referring to the drawings, Fig. 1 shows an umbrella stand of the well-known construction which is composed of a trough-shaped bottom-part a^1, and an intermediate ring-frame a^2 provided with holding rings a^3 for inserting the lower part of the umbrella, and a ring-shaped top-part a^4 which is provided with recesses for inserting a plurality of pairs of jaws $j\ j^1$ and their actuating electro-magnets e. The jaws $j\ j^1$ serve for receiving the handles of the umbrella or other articles, as many pairs of jaws and electro-magnets being provided as there are umbrellas to be inserted in the stand. The pairs of jaws $j\ j^1$ are numbered and extended beyond the circumference of the top-part a^4, one jaw of each pair being fixed and the other movable, by being fulcrumed to the fixed jaw j. The rear-end of the fulcrumed jaw j^1 is acted upon by a stop-plate e^1 which forms an extension of the armature e^2, the latter being normally held by a spring e^3 against a stop-screw e^5, as shown in Fig. 2. The movable jaw j^1 is provided with shoulder j^2 against which the stop plate e^1 abuts when the jaw j^1 is moved into closed position against the jaw j, after an umbrella is placed in position in the stand, the jaws extending around the handle of the umbrella when the same is placed in position in the stand, as shown in Fig. 1. When the movable jaw closes on the stationary jaw, the umbrella cannot be removed from the stand until the owner desires to obtain the same, when he gives the number of the jaws on the stand to the attendant, being either the head-waiter, cashier, or other attendant in charge, who then depresses the correspondingly-numbered push-button d^1 on the switchboard d, which is applied to the wall or other suitable support in proximity to the attendant's place. On pressing the button and closing the battery-circuit the armature e^2 is attracted and the movable jaw released from the umbrella so that the same can be removed from the stand. By this arrangement the umbrella is safely locked in position, while the customer is shaved or takes his meal. No special mark or check is required, but sim-

ply the pressing of the push-button corresponding to the number of the pair of jaws which holds the umbrella, so as to release the same and permit its removal from the stand. The stand can also be used for locking canes in position, in which case an auxiliary disk or ring *f* is arranged immediately above the handles, so that when the cane is placed in position in the stand it cannot be lifted out of the stand, except by the release of the movable locking jaw.

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

In an umbrella-stand, the combination of a trough-shaped bottom-part, a plurality of annularly-arranged rings supported above the trough-shaped part, a ring-shaped top-part above said series and provided with radially-disposed outwardly-opening recesses one above each ring respectively, an auxiliary ring or disk projecting outwardly above and beyond said recesses and rings, a fixed jaw screwed to the bottom-wall of each recess, a movable jaw fulcrumed at its intermediate part to each fixed jaw and provided with a rearwardly-disposed shoulder, a spring-pressed stop-plate fulcrumed in each recess and adapted to engage said shoulder, with its outer end, when the fixed and movable jaws are closed together, an armature secured to the inner end of each stop-plate, a stop-screw secured to a wall of each recess for limiting the movement of the armature therein, an electro-magnet secured to a side-wall of each recess and adapted to act upon the armature therein to move the stop-plate from engagement with the shoulder, a switch-board, and a separate circuit between each electro-magnet and the switchboard.

In testimony, that I claim the foregoing as my invention, I have signed my name in presence of two subscribing witnesses.

KARL DETZNER.

Witnesses:
FANNIE FISK,
JOHN MURTAGH.