

BRACKET

FIELD OF INVENTION

5 This invention relates generally to a bracket, and more particularly to a bracket for securing a clothes hanger, rod or the like in a wardrobe, cabinet or other places.

BACKGROUND OF THE INVENTION

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Generally, wardrobes or cabinets are common furniture that found at house to store clothes or other items.

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There are various types of wardrobes in different sizes and shapes available in the market. For example, US 6152547 A discloses a wardrobe structure, which includes a fixed horizontal top rail, a fixed horizontal bottom rail, and a sliding folding door, the sliding folding door having a horizontal top side edge, a horizontal bottom side edge, a first vertical side edge fixedly connected to a wardrobe, a second vertical side edge, a first set of loops arranged along the horizontal top side edge and respectively hung on the horizontal top rail, a second set of loops arranged along the horizontal bottom side edge and respectively hung on the horizontal bottom rail, and a vertical rod member fixedly arranged along the second vertical side edge for pulling by hand to move the sliding folding door horizontally along the horizontal top rail and the horizontal bottom rail between the close position and the open position. However, these wardrobes does not have an adequate illumination within it. Due to which the user needs to use a light source to look for things arranged in the wardrobes. Further, they do not have any electrical connection means that enables electrical connection to the household wiring system.

Furthermore, the wardrobes or cabinets are also used to store valuable items such as watch, jewellery or the like. Such items are targets for burglars and thieves. Thus, it is important for the wardrobes or cabinets to have some security features.

Therefore, the present invention provides a bracket to solve the aforementioned drawbacks.

SUMMARY OF THE INVENTION

One object of the invention is to provide a bracket for supporting a hanger, rod or the like in a wardrobe.

Another object of the invention is to provide a bracket that capable to provide lighting in a wardrobe, the device turns on and off the lightning by responding the action of opening and closing of the wardrobe door.

Another object of the invention is to provide a bracket with a security camera.

It is a further objection of the invention to provide a bracket which is easy to use and assemble.

Yet a further objection of the invention is to provide a bracket which is inexpensive to manufacture.

The present invention provides a bracket mountable on a vertical surface comprising: a generally rectangular shaped body having a generally U-shaped slot extending partial across the body for receiving a hanging rod or hanger; and a plurality of spaced apart grooves on its opposing edges of the slot in which a

plurality of teeth on a second portion can be engaged. The second portion is preferably a clothes hanger rail.

5 Preferably, the bracket further comprising at least one lighting member attached to the body, wherein the lighting member is coupled to a light sensor module to operate in response to the presence of light. The lighting member is preferably a light emitting diode.

10 The lighting member is preferably powered by a battery. Preferably, the bracket further comprising a switch for controlling the power supply of the lighting member.

15 Preferably, the bracket further comprising an image capturing member. The image capturing member is preferably a pinhole camera. Preferably, the image capturing member has a communication module for wirelessly transmitting images captured to a receiving member.

Preferably, the bracket further comprising a recess for receiving air freshener.

20 The present invention that consists of features and a combination of parts are hereinafter fully described and illustrated in the accompanying drawings. It is being understood that various changes in the details may be made without departing from the scope of the invention or sacrificing any of the advantages of the present invention.

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BRIEF DESCRIPTION OF THE DRAWINGS

To further clarify various aspects of some embodiments of the present invention, a more particular description of the invention will be rendered by references to

specific embodiments thereof, which are illustrated in the appended drawings. It is appreciated that these drawings depict only typical embodiments of the invention and are therefore not to be considered limiting of its scope. The invention will be described and explained with additional specificity and detail through the accompanying drawings in which:

Figure 1 shows a front view of an embodiment of a bracket according to the present invention;

Figure 2 shows a back view of the bracket;

Figure 3 shows the bracket installed in a wardrobe for supporting a hanging rod; and

Figure 4 shows the bracket coupled to a hanger.

DETAILED DESCRIPTION OF THE INVENTION

It is to be understood that the present invention may be embodied in other specific forms and is not limited to the sole embodiment described herein. However modification and equivalents of the disclosed concepts such as those which readily occur to one skilled in the art are intended to be included within the scope of the claims which are appended thereto.

Figure 1 illustrates an embodiment of a bracket (14) according to the present invention. The bracket (14) can be mounted on a firm vertical surface, such as a wall or platform to hold or support a rod (11) as shown in Figure 3. The bracket (14) is preferably made of plastic material.

Referring to Figure 1, the bracket (14) comprises a generally rectangular body (1). The body (1) has a generally U-shaped slot (7) which extends partially across the body (1) to receive a hanger, a rod and any other suitable member. A plurality of spaced grooves (6) are formed on opposing edges of the slot (7) as illustrated in Figure 1. The grooves (6), formed are engagable with a plurality of teeth extended from a second portion or a locking member (2) to be locked or engaged into the slot (7).

Referring now to Figure 2, the locking member (8) is provided to fit into the slot (7). The plurality of teeth or ridges are arranged on the locking member (8), engages with the grooves (6), to position the locking member (8) within the slot (7). The rod (11) is secured in the slot (7) by the locking member (8) positioned in the slot (7) and prevents the rod (11) from slipping off from the bracket (14).

The bracket (14) preferably comprises a screw hole (9), to mount the bracket (14) on any surface. Alternatively, a hook or lug can be used to mount the bracket (14) on any surface.

The bracket (14) preferably comprises at least one lighting member (4) arranged on it. The lighting member (4) is preferably a plurality of light emitting diodes (LED) arranged on either sides of the slots (7). The LEDs are electrically connected to a light sensor (10) preferably an ultraviolet sensor installed on the body. When the doors of the wardrobe are opened, ultraviolet sensor detects the light and triggers the LEDs to switch on illumination effect automatically. And when the doors of the wardrobe are closed, the illumination effect of the LEDs switched off automatically. A battery (5) is provided in the bracket (14) to supply power to lighting member (4). A switch is also be provided to switch on and off the lighting member (4) manually.

The bracket (14) further comprises a recess (2) to accommodate an air freshener. A cover (12) is provided to close the recess (2). The cover (12) can be hingedly attached to the body (1) of the bracket (14) or snap in to the recess (2) to retain the air freshener within the recess (2). The cover (12) is provided a plurality of bores or apertures for pleasant odour from the air freshener to spread easily throughout the wardrobe.

In a further embodiment, at least one image capturing device (3) is installed in the bracket (14) such as pinhole camera capable of capturing or recording images. The image capturing device (3) includes a wireless communication module that enables wireless communication with a device. The user installs an application in their device and receives the images or videos from the image capturing device (3) via the application, text or email. In a furthermore embodiment, an alarm (15) is installed in the bracket (14) and is in wireless communication with the image capturing device (3), in case of an emergency events, the alarm is triggered to produce sound automatically or by the user to alerts others about the event.

Referring to Figure 3, two brackets (14) are mounted each on the opposing walls in the wardrobe. The rod (11) is arranged in between the brackets (14) by inserting each of its ends to the slot (7) of the bracket (14) respectively. The locking member (8) is inserted in the slot (7) to retain the rod (11) in place.

Referring to Figure 4 shows the bracket (14) holding a hanger. The hanger has a plug (13) that can fit into the slot (7) of the bracket (14). A plurality of ridges are arranged on the plug (13) to lock into the grooves (6) of the slot (7). The plug (13) is attached to the hanger body, for example by being integrally moulded therewith. The hanger body can be any size or shape to hang clothes on it.

5 The present invention may be embodied in other specific forms without departing from its essential characteristics. The described embodiments are to be considered in all respects only as illustrative and not restrictive. The scope of the invention is, therefore indicated by the appended claims rather than by the foregoing description. All changes, which come within the meaning and range of equivalency of the claims, are to be embraced within their scope.

CLAIMS

1. A bracket (14) mountable on a vertical surface comprising:
a generally rectangular shaped body (1) having a generally U-shaped slot (7) extending
5 partially across the body for receiving a hanging rod (11) or hanger;
characterized in that the bracket (14) further comprises:
a plurality of spaced apart grooves (6) on a surface of the U-shaped slot (7); and
a locking member (8) having a plurality of teeth which is engageable with the grooves
(6) for fixing the locking member (8) at a position in the U-shaped slot (7) such that the
10 hanging rod (11) or hanger can be retained in the U-shaped slot (7).
2. A bracket (14) according to claim 1, wherein the locking member (8) is a cloth hanger
rail.
- 15 3. A bracket (14) according to claim 1 or 2 further comprising at least one lighting member
(4) attached to the body (1), wherein the lighting member (4) is coupled to a light sensor
module (10) to operate in response to the presence of light.
- 20 4. A bracket (14) according to claim 3, wherein the lighting member (4) is a light emitting
diode.
5. A bracket (14) according to claim 4, wherein the lighting member (4) is powered by a
battery.
- 25 6. A bracket (14) according to claim 5 further comprising a switch for controlling the
power supply of the lighting member (4).
7. A bracket (14) according to any one of claims 1 to 6, further comprising an image
capturing member (3).
- 30 8. A bracket (14) according to claim 7, wherein the image capturing member (3) is a
pinhole camera.

9. A bracket (14) according to claim 7 or 8, wherein the image capturing member (3) has a communication module for wirelessly transmitting images captured to a receiving member.

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10. A bracket (14) according to any one of claims 1 to 9 further comprising a recess (2) for receiving air freshener.