Specification of Demountable Extension Socket Holder

This invention relates to a demountable holder for extension sockets.

Extension sockets are extensively used to extend power supply from a fixed power point to another location whereby no power supply is available. Extension sockets are also used in situation whereby the existing fixed point power supply provision is inadequate to cater for the number of electrical and/or electronic appliances tapping on it. When in use, extension sockets are commonly left lying loose and hidden at one corner either on the table top or under the furniture on the floor. This is rather unsightly. At the same time, it also renders subsequent access to the extension socket difficult and at times, even hazardous.

The object of the invention is to provide a device that will afford a sound and sturdy fixing of the extension socket at the point of usage. The extension socket will have to remain easily and readily accessible. Moreover, the device will also allow the extension socket to be easily and freely dismantled and moved to another location with the bare hand. More importantly, any repositioning of the extension socket unit shall not leave any damage on the contact surfaces of the furniture.

The concept of the Extension Socket Holder is to have a preformed profile that will house the extension socket on one face and at the same time, have provision made on the opposite face to allow the fully assembled unit to be fixed onto the edge of the table top or side panel or the leg or framing of the furniture. The preformed profile of an Extension Socket Holder resembles a smaller 'C' channel jointed back-to-back to a bigger 'C' channel as show in Figure 1.

The function of the bigger 'C' channel is to house the extension socket unit. As the width of the extension socket will vary from manufacturer to manufacturer, the extension socket will be secured in position in the Extension Socket Holder by tightening the two adjustment screws provided at the base of the bigger "C" channel as shown in Figure 2. The free ends of the adjustment screws are fitted with capped nuts whose purpose is to help to distribute the forces exerted by the screws over a larger area of contact so as to prevent any puncturing effect that may be caused by the concentration of forces at the tip of the screws, which will in turn cause damage to the surface of the extension socket unit. The function of the return flap

at the base of the bigger "C" channel is not only to conceal the adjustment screws from view like a screen but it also acts as a shield to prevent one from any accidentally collision with the adjustment screws thereby hurting oneself.

Once the Extension Socket is firmly secured in position in the Extension Socket Holder, the whole assembled unit can then be fixed either to the edge of the table top or side panel or the leg or framing of the furniture at the smaller 'C' channel location as shown in Figure 3. Since the thickness of the table tops or side panels or legs or framings of different furniture will vary from furniture to furniture, the Extension Socket Holder can be tightly held in position by tightening the two adjustment screws provided at the base of the smaller "C" channel as shown in Figure 3. The free end of the adjustment screw is similarly provided with capped nuts to protect the contact surface of the furniture against damages.

In the subsequent event that there is a need to replace the existing Extension Socket for any reason, the replacement of the existing Extension Socket can be easily carried out by simply loosening the two adjustment screws at the base of the bigger 'C' channel to release the existing Extension Socket. The old Extension Socket removed and discarded. The desired new Extension Socket can then be installed in position in the manner as described before.

Similarly, if there should be a need to move the Extension Socket from one point to another point, this can be carried out by simply loosening the adjustment screws at the base of the smaller 'C' channel as above to disengage the whole assembled unit from its original fixing point. The whole assembled unit can then be moved and fixed at the new intended location.

CLAIMS

1. The demountable Extension Socket Holder characterised in that it is a preformed profile that resembles 2 unequal 'C' channels jointed back-to-back by a common web. The bigger 'C' channel face houses the Extension Socket unit. The varying widths of various types of Extension Socket units are being taken care of by two adjustment screws provided and fitted with capped nuts at the base of the bigger "C" channel. The whole assembled unit can then be mounted onto the edge of the table top or side panel or the leg or framing of the furniture at the smaller "C" channel face. Once again, the entire assembled unit is held tightly in position by two adjustment screws provided at the base of the smaller "C" channel.

2. A demountable Extension Socket Holder according to Claim 1, characterized in that it permits the Extension Socket unit to be securely and soundly mounted onto the edge of the table top or side panel or the leg or framing of the furniture.

3. A Demountable Extension Socket Holder accordingly to Claim 1 and 2, characterized in that the Extension Socket unit will continue to remain easily and readily accessible at all times.

4. A Demountable Extension Socket Holder according to Claim 1 and 2, characterized in that the entire assembly can be easily dismantled and effortlessly moved to another location without the need for any hand tools and will not leave any damage on the surface of the furniture.