

Improvements in or relating to adaptors for electrical sockets

Field of the Invention

This invention relates to adaptors, in particular this invention discloses
5 improved adaptors for use in electrical sockets.

Background Art

A conventional adaptor is a small unit which may be plugged into an
electrical wall socket, and is normally adapted to receive on one or more
of the upper, lower and front surfaces thereof the two or three-prong
10 contact points of electrical appliances. Such adaptors may be used to
connect a maximum of up to three electrical appliances to the wall socket.
However, such conventional adaptors are dangerous as three electrical
appliances are plugged simultaneously into one small adaptor unit which
is connected to the wall socket and only one switch, i.e. the switch of
15 the wall socket, is used to switch on or off the electrical power supply
to all of the said electrical appliances connected thereto. Any leakage
of electrical current or short circuit will consequently affect and/or
damage all the electrical appliances connected to the said conventional
adaptor, and will also be hazardous to the user.

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Disclosure of the Invention

The present invention aims to alleviate at least one of the above
disadvantages and provides an improved adaptor which is safe,
functional, reliable and efficient in use.

This Sheet Has Been Replaced



The invention in one aspect resides broadly in an adaptor which comprises a plurality of electrical contact members to enable connection with an electrical power supply socket, characterised in that the said adaptor comprises at least one surface which is adapted to simultaneously
5 receive the electrical contact members of a plurality of electrical appliances, the said adaptor further comprising a plurality of corresponding switch means, wherein each of the said switch means individually controls the electrical power supply to each electrical appliance connected to the said adaptor, further characterised in that the
10 said adaptor may be detachably affixed to a surface by any suitable attachment means.

Description of the Drawings

In order that the innovation may be more clearly understood, reference will now be made to the accompanying drawings which illustrate the best
15 mode contemplated by the applicant for carrying out the invention, in the form of an example of the invention, wherein:-

Figure 1 illustrates a front view of one embodiment of the adaptor;
Figure 2 illustrates a view of the inner rear surface of the adaptor;
Figure 3 illustrates a side view of one embodiment of the adaptor;
20 Figure 4 illustrates a top view of one embodiment of the adaptor;
Figure 5 illustrates a rear view of one embodiment of the adaptor.
Figure 6 depicts the adaptor which is affixed with screw means;
Figure 7 illustrates the attachment of the adaptor to the socket.

Referring now to Figures 1 to 5, there is depicted a preferred embodiment of the adaptor according to the present innovation. The adaptor (1) is of substantially elongate rectangular box-shaped configuration. Alternatively, the adaptor may be of any other
5 advantageous configuration which is suitable to achieve the object of the present innovation. The front cover (2) may be detached from the body of the adaptor (1). The front section (3) comprises a plurality of electrical contact grooves (4) which are adapted to receive the electrical contact pins of electrical appliances. The adaptor is advantageously
10 adapted to simultaneously receive the electrical contact members of a plurality of electrical appliances. The front section (3) of the adaptor further comprises a plurality of corresponding switch means (5), wherein each of the said switch means individually controls the electrical power supply to each electrical appliance connected to the said adaptor. The
15 inner surface (6) of the rear section (7) of the adaptor (1) advantageously comprises a plurality of bores (8,9) which are adapted to allow the affixation of the adaptor (1) to any surface. The rear section (7) of the adaptor (1) comprises a plug means (10) which has a plurality of electrical contact members (11) which are adapted to engage
20 with the corresponding electrical contact grooves of a electrical power supply socket. The plug means (10) may advantageously comprise a screw means (12) and a groove (13). The movement of the screw means (12) along the groove (13) allows the said plug means (10) to be adjusted lengthwise in accordance with the position of the electrical
25 power supply socket in order to allow for accurate engagement of the adaptor (1) with the socket. The plug means (10) further comprises a removable backing means (14) which is held in place by the screw means

(12). The backing means (14) allow for adjustment of the adaptor (1) so as to suit the height of different wall sockets.

In use the adapter may be plugged into a wall power supply socket, and affixed to the surface of the wall using nails or screws. The adaptor
5 may be manufactured to advantageously receive the electrical contact members of two, three, four or a plurality of electrical appliances. The power supply to each electrical appliance may be individually controlled by separate switch means.

Referring to Figures 6 and 7, another embodiment of this invention shows
10 that the adaptor may be provided with a plurality of screw means (15) on the upper and lower shell surfaces of the said adaptor. During use, the said screw means may be tightened around the shell of the wall socket by any suitable method so as to allow the said adaptor to be detachably secured directly to the shell of the said wall socket. This
15 eliminates the need to affix the adaptor of the invention directly onto the wall surface.

The present innovation alleviates the dangers and disadvantages of conventional adaptors presently in the market.

It will of course be realised that whilst the above has been give by way
20 of an illustrative example of the invention, all such and other modifications and variations thereto, as would be apparent to persons skilled in the art, are deemed to fall within the broad scope and ambit of the innovation as claimed herein.

Claim

1. An adaptor which comprises a plurality of electrical contact members to enable connection with an electrical power supply socket, characterised in that the said adaptor comprises at least one surface which is adapted to simultaneously receive the electrical contact members of a plurality of electrical appliances, the said adaptor further comprising a plurality of corresponding switch means, wherein each of the said switch means individually controls the electrical power supply to each electrical appliance which is connected to the said adaptor, further characterised in that the said adaptor may be detachably affixed to a surface by any suitable attachment means.
2. An adaptor as claimed in claim 1 comprising a plurality of screw means on the upper and lower surfaces thereof, wherein the said screw means may be tightened so as to allow the said adaptor to be detachably affixed directly to the shell of the electrical power supply socket which is affixed on the wall surface.



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