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CONNECTOR FOR TAPPING ELECTRICAL POWER FROM PERIPHERAL DEVICES ✓

ABSTRACT

The connector (51) as shown in Fig. 5 will henceforth be named a Jeck connector or Jeck for short. The Jeck comprises a male (51m) and female (51f) interface, a central connecting section (51c) and a cable grip (51g). A complete Jeck cable consists of a Jeck connector, a cable (53) terminated with any socket (54). The Jeck acts as a power tap which can be plugged between an equipment (such as a personal computer), and an existing device (such as a monitor) as shown in Fig. 3. The cable (31) connecting the Jeck and the terminal socket delivers the power from the Jeck to the socket. This terminal socket will then supply power to a third device (34), such as a printer. Another variation of usage is as shown in Fig. 4. Both usage eliminate the need for a power plug whose design can vary from country to country.

FIELD OF THE INVENTION

This invention relates to a specially designed electrical power connector known as a Jeck for tapping electrical power supply from peripheral devices or from a personal computer and delivering the power to another device via a cable terminated with a socket. }

BACKGROUND OF THE INVENTION

Electrical or electronic devices/equipment generally draw their power from a 110V or 230V supply via an electrical socket, generally mounted on the wall. Unfortunately, these electrical sockets come in different and incompatible designs which vary from country to country. For example, the power cords used in the USA, which are provided together with the devices, will not fit into the Singapore electrical socket. The non-compatible USA power plug has to be changed to our own 3-pin plug. Alternatively, one could purchase an adaptor to fit the non-compatible power plug. Similarly, the 3-pin plugs use in Singapore will not be compatible with the electrical sockets use in the USA.

Such incompatibilities result in additional costs and inconveniences for the users. It is also troublesome for the manufacturer to pack their equipment with different plugs for the power cords when shipping to different countries. Fig. 1 shows some of the power plugs used in different countries. Furthermore, a second electrical socket must be available to supply power to the second device. Fig. 2 shows the current situation when connecting the power supply to a second device.

This invention does away with the need for a power plug and hence eliminated concerns about the incompatibilities of electrical power sockets of different countries as well as a need for a second electrical socket.

This invention taps the electrical power from a personal computer or another device as shown in Fig. 3 and Fig. 4 respectively. It eliminates the need to ship peripheral devices with a power plug.

OBJECT OF THE INVENTION

The primary objective of the invention is to provide an electrical connector (known as a Jeck connector) and power cord to tap into the power supply from another device/equipment.

It is another object of the invention to eliminate the need for a power plug and the need for a second electrical power socket.

Other objects, features and advantages of the present invention will become apparent from the detailed description which follows.

SUMMARY OF THE INVENTION

This invention (Fig. 5) primarily consists of a main connector (51), cable (53) and a terminal socket (54). The main connector, herein called the Jeck connector or Jeck for short, comprises of both a male (51m) and a female (51f) interface at opposite ends. The cable can withstand 230 Volts and 13 Amperes of electrical power. The terminal socket is compatible with the connecting device.

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