ORIGINAL

[Title of Invention]

POWER SUPPLY DEVICE, POWER RECEIVING DEVICE, AND POWER SUPPLY METHOD

[ABSTRACT]

A power sever, client and method cooperate to selectably supply power from a power server to a client in a format that is acceptable to the client. The client device is able to distinguish the power server from other power servers based on an identification of the power server transmitted to the client device. The client device is then able to specify, or select, from the specific power server the format of the energy to be conveyed to the client device for ultimate consumption by the client device. The conveyance of energy is provided over conductors or wirelessly.

[CLAIMS]

[Claim 1]

A power server comprising:

a processor that prepares message content including an identification of the power server;

an electrical interface that is configured to

transmit the message content with the identification to a client and receive return data from the client, and

convey energy via a medium to the client for providing operational power to the client.

[Claim 2]

The power server of claim 1, wherein:

said electrical interface includes an antenna through which the message content is transmitted and the return data is received; and

said medium includes an electrical conductor.

[Claim 3]

The power server of claim 1, wherein:

said electrical interface transmits the message content wirelessly, and said medium including an air space through which the energy is conveyed to the client.

[Claim 4]

The power server of claim 1, wherein said processor is a software programmable processor.

[Claim 5]

The power server of claim 1, wherein said processor is a logic-based processor.

[Claim 6]

The power server of claim 1, wherein said electrical interface is controllable to select between a wired medium for conveying said energy via a conductor to said client, and a wireless medium for conveying said energy to said client wirelessly.

[Claim 7]

The power server of claim 1, wherein said identification is a unique identification that distinguishes said power server from another power server.

[Claim 8]

The power server of claim 1, wherein said processor is configured to adjust a specification of said energy conveyed to said client based on the return data received from said client.

[Claim 9]

A client device comprising:

an electrical interface that is configured to receive message content including an identification of a power server; and

a processor that prepares return data that is transmitted via said electrical interface to said power server, wherein

said electrical interface is configured to accept energy via a medium from the power server for providing operating power to the client device.

[Claim 10]

The client device of claim 9, wherein:

said electrical interface includes an antenna through which the return data is transmitted and the message content is received; and

said medium includes an electrical conductor.

[Claim 11]

The client device of claim 9, wherein:

said electrical interface receives the message content in a wireless transmission, and said medium including an air space through which the energy is conveyed via the power server.

[Claim 12]

The client device of claim 9, wherein said processor is a software programmable processor.

[Claim 13]

The client device of claim 9, wherein said processor is a logic-based processor.

[Claim 14]

The client device of claim 9, wherein said electrical interface is controllable to select between a wired medium for accepting said energy via a conductor from said power server, and a wireless medium for accepting said energy wirelessly from said power

server.

[Claim 15]

The client device of claim 9, wherein said identification is a unique identification that distinguishes said power server from another power server.

[Claim 16]

The client device of claim 9, wherein said processor is configured to indicate a specification of said energy to be conveyed from said power server as indicated in the return data transmitted from said client device.

[Claim 17]

A computer implemented method for conveying energy to a client device comprising:

preparing message content including an identification of a power server at the power server;

transmitting the message content with the identification to the client device;

transmitting return data from the client to the power server;

conveying energy from the power server via a medium to the client; and

using said energy conveyed in said conveying step to provide operational power for powering the client.

[Claim 18]

The method of claim 17, wherein:

said transmitting the message content includes wirelessly transmitting the message content; and

said conveying said energy includes conveying said energy on an electrical conductor.

[Claim 19]

The method of claim 17, wherein:

said transmitting the message content includes wirelessly transmitting the message content; and

said conveying said energy includes conveying said energy wirelessly.

[Claim 20]

The method of claim 17, further comprising:

specifying in said return data a power specification for the energy to be conveyed in said conveying step, said power specification indentifying at least one parameter that is compatible with power requirements of said client device.

Dated this 16/04/2012

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