## ABSTRACT OF THE DISCLOSURE

## POWER DISTRIBUTION SYSTEM INCLUDING A CONTROL MODULE AND A METHOD OF USING THE SYSTEM

A method of employing a power supply grid can include transmitting an identification initiation command from a control module to a first power supply unit to initiate a corresponding identification command. The method can also include transmitting an identification command from the first power supply unit to other power supply unit(s) that are supplied with power using a power supply phase in common with the first power supply. The method can further include transmitting identification acknowledgement signal(s) from the other power supply unit(s) to the control module in response to the first corresponding identification command. In one embodiment, the method can include mapping which power supply units correspond to various power supply grids. In other embodiments, control modules and power distribution systems can be operable to perform portions of the methods.

FIG. 2



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