

Plug-n-Power™ AC/DC Distribution Systems

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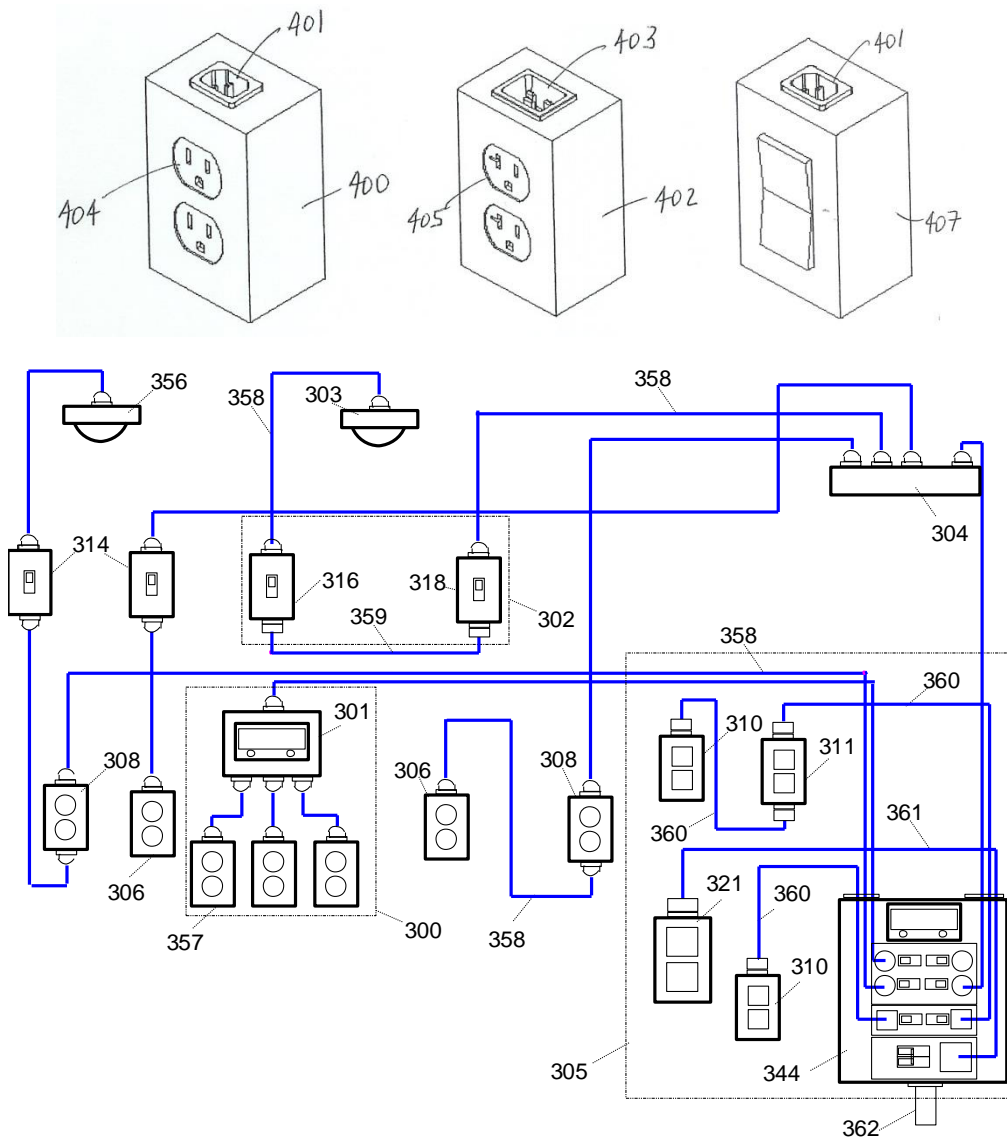
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Patent No. US 8,341,837

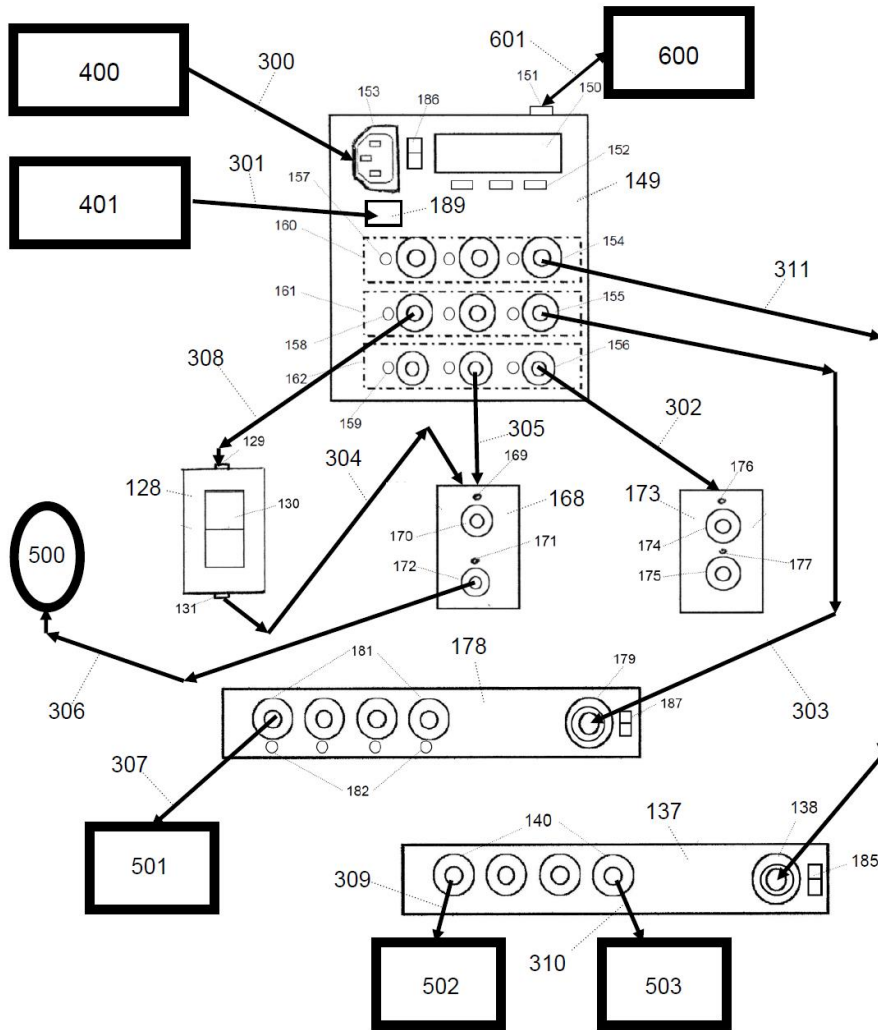
Modular Power Distribution and Control System

The invention describes apparatus for designing and installing power distribution systems for: residential, commercial and industrial applications, as well as for power distribution within electro-mechanical devices. The invention transforms existing labor-intense installations into practically plug-and-power type modular systems. For a specific project, pre-designed, fabricated and tested kit, including factory assembled and tested: power and control enclosures, power outlets and junction boxes, interface cables, as specified by the invention, will be delivered directly to the installation site. No labor intense operations: wire crimping, outlet/switch wiring, junction box wiring, load wiring. No exposed hot wires or leads at any point outside enclosure. The invention will: significantly lower labor costs, reduce installation time, improve safety, reliability and quality. Utilization of shielded cables and shielding of other components within a system, will significantly lower electrical power emissions, benefiting the environment for all – the end users and other technologies.



Patent-pending application No. US 13,731,103
Plug and Power Distribution and Control Apparatus

Invention describes apparatus providing plug-and-power distribution of power and communications for: residential, commercial, industrial applications, and for electro-mechanical devices and computer systems. Invention transforms existing labor-intense installations into plug-and-power modular systems. For specific project, pre-designed, pre-fabricated kits, including factory assembled and tested: power and control modules, interface cables, will be delivered directly to the installation site. Labor intense operations, including: wire stripping, wire crimping are replaced with plug-and-power components. Apparatus has no exposed hot leads accessible by bare hands, including service personnel. Invention will: significantly lower labor costs, reduce installation time, improve power distribution safety, reliability, utilization efficiency, and quality. Application of shielded cables and shielding of other components within the apparatus, will significantly lower electrical power emissions, benefiting the environment for all – the end users and other technologies. Invention describes plug-and-power DC power distribution replacing existing AC power distribution, further improving safety and efficiency.



Patent-pending application No. US 61,859,723

Apparatus DC Power Splitter to a Device from Several Power Sources with Controls

Invention describes configurable apparatus providing DC plug-and-power distribution from DC power sources to DC power loads. Configuration of apparatus includes combination of input power interfaces configured to distinguish or interlock power supplies connected to the apparatus. Configuration of apparatus includes combination of output power interfaces configured to distinguish or interlock power loads connected to the apparatus. Apparatus configurations include controller to monitor and control each device connected to the apparatus. Monitored parameters include: voltage, current, temperature. Controller will execute pre-defined algorithm to prevent measured parameters from exceeding set operating criteria for the apparatus and devices connected to the apparatus. Apparatus can be configured as a harness with components and interfaces embedded into the harness, or enclosure with components and interfaces inside enclosure. Apparatus can be configured and controlled by a HOST over wired or wireless network, including INTERNET. Apparatus can be configured to execute real-time commands without operator assistance.

