

Title (en)
ONBOARD ELECTRICAL NETWORK

Title (de)
BORDSTROMNETZ

Title (fr)
RESEAU ELECTRIQUE EMBARQUÉ

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Application
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Abstract (en)
[origin: WO2009125012A2] The invention relates to an electrical network. The invention is particularly useful in aeronautics for commercial jumbo jets that increasingly comprise onboard electrical devices. The electrical network includes: two devices (21, 26, 27, 35, 36) capable of either providing or consuming electric power, and a transferring means, connected between the two devices (21, 26, 27, 35, 36) and enabling power exchange between the two devices (21, 26, 27, 35, 36). According to the invention, the transferring means includes a reversible continuous-alternative converter (22, 23, 24, 25), the converter (22, 23, 24, 25) capable of being controlled in continuous-continuous step-down or step-up mode. In a particular embodiment of the invention, the first device is a high tension continuous bus, and the network includes several second devices, whereon the charges (26, 27) and a low tension continuous bus upon which a battery (35) may be connected. The network includes a plurality of non-dedicated converters that may be connected between the first device and any of the second devices.

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