

Title (en)
SECONDARY ELECTRIC POWER DISTRIBUTION CABINET IN AN AEROPLANE

Title (de)
SEKUNDÄRLEISTUNGSSCHALTSCHRANK EINES FLUGZEUGS

Title (fr)
ARMOIRE DE DISTRIBUTION SECONDAIRE DE PUISSANCE ELECTRIQUE D'UN AVION

Publication
EP 1050089 A1 20001108 (FR)

Application
EP 99956130 A 19991119

Priority
• FR 9902888 W 19991119
• FR 9814663 A 19981120

Abstract (en)
[origin: FR2786326A1] The power system is based on a primary control point in the pilot's cockpit, from which feeder circuits (22) run to secondary cabinets (14) distributed through the aircraft, each controlling a group of 4 or more utilisation points via secondary feeder circuits all emanating from a plug connector (46) on the cabinet's printed circuit board (30). Each such outgoing circuit is protected by a circuit-breaker (36,38,40,...) rated between 1 and 15 A, fixed mechanically by tags (82) to the board, with its reset button (36C, etc.) projecting through the cabinet's front-plate (50). As well as the power connections (36A,36B, etc.) to the incoming supply track and the outgoing circuit, each circuit-breaker has on/off indicating contacts connected (36D, etc., 54) to tracks leading to a control circuit board (52) parallel with the main board and equipped with a plug connector (56) having a cabled connection to a consolidating display panel in the cockpit. The printed circuit board has, typically, 6 layers, carrying on one the incoming power tracks, over two layers allotted to the outgoing circuit connections, and two for the state monitoring connections. The lowest layer functions as a heat sink. Each upper layer is perforated where necessary to allow conductor access to those below.

IPC 1-7
H02B 1/04

IPC 8 full level
H02B 1/04 (2006.01); **H05K 1/02** (2006.01); **H05K 1/18** (2006.01); **H05K 3/00** (2006.01); **H05K 3/46** (2006.01)

CPC (source: EP)
H05K 1/0263 (2013.01); **H02B 1/04** (2013.01); **H05K 1/0203** (2013.01); **H05K 1/0207** (2013.01); **H05K 1/0268** (2013.01); **H05K 1/18** (2013.01); **H05K 3/0061** (2013.01); **H05K 3/4641** (2013.01); **H05K 2201/10053** (2013.01)

Citation (search report)
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Cited by
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