

Title (en)

A SHELF ELECTRICAL SUPPLY AND SHELF ELECTRICAL SUPPLY SYSTEM HAVING SAME

Title (de)

ELEKTRISCHE REGALVERSORGUNG UND ELEKTRISCHES REGALVERSORGUNGSSYSTEM DAMIT

Title (fr)

ALIMENTATION ÉLECTRIQUE D'ÉTAGÈRE ET SYSTÈME D'ALIMENTATION ÉLECTRIQUE D'ÉTAGÈRE LA COMPORTANT

Publication

EP 3391782 B1 20200226 (EN)

Application

EP 18168156 A 20180419

Priority

CN 201710256033 A 20170419

Abstract (en)

[origin: EP3391782A1] A shelf electrical supply (50) and its shelf electrical supply system (100) include a bottom cover (51), a top cover (52) disposed on the bottom cover (51), positive and negative wires (53,54) sandwiched between the bottom cover (51) and the top cover (52) and insulated from each other, and positive and negative power contactors (55,56) sandwiched between the bottom cover (51) and the top cover (52). The positive and negative power contacts respectively include a positive and a negative sleeve (551,561), and two positive and negative pairs of superposed magnets (552,562) respectively arranged in the positive sleeve and the negative sleeve (551,561). The two magnets of each pair (552,562) are mutually exclusive and respectively located between the positive and negative protruding portions (553,563) and the top cover (52). The positive and negative extensions respectively protrude the protruding holes (512,513) of the positive and negative contactors under the repulsive force of the two positive and negative magnets (552,562). The assembly of the carrier arm (40) can be completed when the carrier arm (40) of the shelf electrical supply system (100) is inserted into the insertion hole (11) of the column (10) so that the impact of the tolerance is minimized when assembling the column (10) and the carrier arm.

IPC 8 full level

A47B 96/06 (2006.01); **H01R 11/30** (2006.01); **A47B 96/14** (2006.01); **A47F 5/10** (2006.01); **H01R 13/24** (2006.01)

CPC (source: CN EP)

A47B 96/061 (2013.01 - EP); **F21S 8/00** (2013.01 - CN); **F21V 17/164** (2013.01 - CN); **F21V 23/06** (2013.01 - CN); **A47B 96/1408** (2013.01 - EP); **A47B 2220/0077** (2013.01 - EP); **A47F 5/103** (2013.01 - EP); **H01R 11/30** (2013.01 - EP); **H01R 13/24** (2013.01 - EP); **H01R 31/06** (2013.01 - EP)

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