

Title (en)

POWER SWITCHING MODULE, CONVERTER INTEGRATING THE LATTER AND MANUFACTURING METHOD

Title (de)

LEISTUNGSSCHALTMODUL, WANDLER MIT INTEGRATION DAVON UND HERSTELLUNGSVERFAHREN

Title (fr)

MODULE DE COMMUTATION DE PUISSANCE, CONVERTISSEUR INTÉGRANT CELUI-CI ET PROCÉDÉ DE FABRICATION

Publication

EP 3552234 A1 20191016 (FR)

Application

EP 17818196 A 20171205

Priority

- FR 1662331 A 20161212
- FR 2017053404 W 20171205

Abstract (en)

[origin: WO2018109318A1] The power switching module includes first and second subassemblies that are superposed on top of each other to form a stack and that comprise first and second electronic power switches forming a bridging branch, respectively. The module comprises a metal central sheet (LW7) and first and second metal end sheets (LW2, LW12) forming top and bottom ends of the stack. According to the invention, the module also comprises first, second and third metal terminal rods (1, 2, 3) that extend through the stack and open onto at least one of the top and bottom ends thereof, the first, second and third rods being in electrical continuity with the first and second metal end sheets and the metal central sheet, respectively.

IPC 8 full level

H01L 25/11 (2006.01); **H01L 23/538** (2006.01); **H05K 1/14** (2006.01); **H05K 3/36** (2006.01)

CPC (source: EP US)

H01L 23/473 (2013.01 - EP US); **H01L 23/481** (2013.01 - US); **H01L 23/49838** (2013.01 - US); **H01L 25/0657** (2013.01 - US); **H01L 25/117** (2013.01 - EP); **H02M 3/155** (2013.01 - US); **H02M 7/003** (2013.01 - EP); **H01L 23/552** (2013.01 - EP); **H01L 25/18** (2013.01 - EP); **H05K 1/056** (2013.01 - EP); **H05K 3/4608** (2013.01 - EP); **H05K 2201/10166** (2013.01 - EP)

Citation (search report)

See references of WO 2018109318A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

FR 3060243 A1 20180615; **FR 3060243 B1 20190823**; CN 110326104 A 20191011; EP 3552234 A1 20191016; JP 2020502824 A 20200123; US 10734361 B2 20200804; US 2020013755 A1 20200109; WO 2018109318 A1 20180621

DOCDB simple family (application)

FR 1662331 A 20161212; CN 201780076935 A 20171205; EP 17818196 A 20171205; FR 2017053404 W 20171205; JP 2019551754 A 20171205; US 201716468259 A 20171205