

Title (en)
SEPARATING DEVICE WITH OPTIMISED INSTALLATION AREA

Title (de)
BAURAUMOPTIMIERTE ABTRENNVORRICHTUNG

Title (fr)
DISPOSITIF DE SÉPARATION À ENCOMBREMENT RÉDUIT

Publication
EP 3605574 A1 20200205 (DE)

Application
EP 19188998 A 20190730

Priority
DE 102018212690 A 20180730

Abstract (en)
[origin: CN210156315U] The utility model relates to a separable device with an optimized installation space, which comprises a carrier with an electrical element, and the electrical element and the carrier can be separated by heating; wherein the carrier is provided with at least two guide grooves; the electrical element is connected and fixed on the carrier through a thermosetting material; wherein the carrier is provided with an energy storage device relative to the electrical element, and the energy storage device drives the electrical element to disconnect the connection and move parallel to the carrier when the thermosetting material becomes soft; the carrier is further provided with a mechanical movement indicator, the mechanical movement indicator is used for monitoring whether the electrical element is disconnected from the carrier or not, and the mechanical movement indicator and the electrical element move together; the mechanical movement indicator is positioned and guided within the at least two guide slots.

Abstract (de)
Die Erfindung betrifft eine bauraumoptimierte Abtrennvorrichtung (1).

IPC 8 full level
H01H 9/18 (2006.01); **H01H 37/76** (2006.01)

CPC (source: EP)
H01H 9/18 (2013.01); **H01H 37/761** (2013.01); **H01H 2037/762** (2013.01); **H01H 2037/763** (2013.01)

Citation (applicant)
• DE 9010246 U1 19901031
• DE 4241311 C2 19950608 - PHOENIX CONTACT GMBH & CO [DE]
• DE 69904274 T2 20030828 - SOULE MATERIEL ELECTR BAGNERES [FR]
• US 6430019 B1 20020806 - MARTENSON KENNETH R [US], et al
• DE 102008057166 A1 20100520 - BEHR HELLA THERMOCONTROL GMBH [DE]
• DE 102005040308 A1 20070301 - WEHRLE AUTOELEKTRONIK GMBH [DE]
• DE 102009036578 B3 20100909 - MAGNA ELECTRONICS EUROP GMBH & [DE]
• DE 202016102862 U1 20170903 - PHOENIX CONTACT GMBH & CO [DE]

Citation (search report)
• [A] DE 102008057166 A1 20100520 - BEHR HELLA THERMOCONTROL GMBH [DE]
• [A] US 5831507 A 19981103 - KASAMATSU MIKIZO [JP], et al
• [A] WO 2011011985 A1 20110203 - PROSURGE ELECTRONICS CO LTD [CN], et al
• [A] DE 202016102862 U1 20170903 - PHOENIX CONTACT GMBH & CO [DE]
• [A] DE 102006042028 B3 20070927 - DEHN & SOEHNE [DE]
• [A] DE 102015213050 A1 20170119 - PHOENIX CONTACT GMBH & CO [DE]

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)
EP 3605574 A1 20200205; **EP 3605574 B1 20201125**; CN 210156315 U 20200317; DE 102018212690 A1 20200130; SI 3605574 T1 20210730

DOCDB simple family (application)
EP 19188998 A 20190730; CN 201921186194 U 20190726; DE 102018212690 A 20180730; SI 201930017 T 20190730