

Title (en)

MODULAR CIRCUIT CONFIGURATION FOR SWITCHING ELECTRICAL POWER AND AN ADAPTER DESIGNED TO THIS END

Title (de)

MODULARE SCHALTUNGSANORDNUNG ZUM SCHALTEN ELEKTRISCHER LEISTUNGEN SOWIE EIN DAZU AUSGEBILDETER ADAPTER

Title (fr)

CIRCUIT MODULAIRE DE COMMUTATION DE PUISSANCES ÉLECTRIQUES ET ADAPTATEUR ASSOCIÉ

Publication

**EP 2415058 A1 20120208 (DE)**

Application

**EP 10716755 A 20100322**

Priority

- EP 2010001784 W 20100322
- DE 102009014944 A 20090330

Abstract (en)

[origin: WO2010112150A1] The invention relates to a modular circuit configuration (10) for switching electrical power. Said configuration comprises a relay socket (40) and an adapter (30) that can be releasably connected to the relay socket (40). The adapter (30) comprises a semiconductor relay (60) and a control device (50) electrically connected thereto. A relay (20) is further provided that can be releasably electrically and mechanically connected to the adapter (30), such that the semiconductor relay (60) is connected in parallel to a mechanical switch (22) of the relay (20) in the connected state, wherein the control device (50) can actuate the relay (20) and the semiconductor relay (60) at different times.

IPC 8 full level

**H01H 9/54** (2006.01)

CPC (source: EP KR US)

**H01H 9/54** (2013.01 - KR); **H01H 9/542** (2013.01 - EP US); **H03K 17/60** (2013.01 - KR)

Citation (search report)

See references of WO 2010112150A1

Citation (examination)

EP 2023457 A2 20090211 - DIEHL AKO STIFTUNG GMBH & CO [DE]

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

**DE 102009014944 A1 20101007**; **DE 102009014944 B4 20110616**; CN 102369585 A 20120307; CN 102369585 B 20150121; EP 2415058 A1 20120208; JP 2012522342 A 20120920; JP 5554827 B2 20140723; KR 101395287 B1 20140515; KR 20120005481 A 20120116; RU 2011143781 A 20130510; RU 2510091 C2 20140320; US 2012026640 A1 20120202; US 8553374 B2 20131008; WO 2010112150 A1 20101007

DOCDB simple family (application)

**DE 102009014944 A 20090330**; CN 201080014626 A 20100322; EP 10716755 A 20100322; EP 2010001784 W 20100322; JP 2012502491 A 20100322; KR 20117025791 A 20100322; RU 2011143781 A 20100322; US 201013260386 A 20100322