

Title (en)

Device combination for protecting against electrical surges

Title (de)

Gerätekombination zum Schutz vor Überspannungen

Title (fr)

Combinaison d'appareils pour la protection contre les surtensions

Publication

EP 2432089 A3 20141105 (DE)

Application

EP 11006746 A 20110818

Priority

- DE 202010012860 U 20100920
- DE 102011013300 A 20110307

Abstract (en)

[origin: EP2432089A2] The combination has a U-shaped lower part, and a plug-in module (2) including an electrical surge protection element and connected with the lower part. A holding or locking unit (3) is provided between the module and the lower part and detachable and/or disengageable by manipulation. A spring element (4) is present between the module and the lower part and pretensioned when the module is inserted. The spring element adjusts the module against plug-in direction in a removal position when the holding or locking unit is detached or disengaged.

IPC 8 full level

H01T 4/06 (2006.01); **H01R 9/24** (2006.01); **H01R 13/635** (2006.01)

CPC (source: EP)

H01R 9/2441 (2013.01); **H01R 13/635** (2013.01); **H01T 4/06** (2013.01)

Citation (search report)

- [XYI] DE 102005005914 A1 20060810 - DEHN & SOEHNE [DE]
- [XI] WO 2006074866 A1 20060720 - DEHN & SOEHNE [DE], et al
- [Y] DE 1036356 B 19580814 - SIEMENS AG
- [Y] US 5273446 A 19931228 - WALKUP WILLIAM B [US]
- [A] DE 1912976 U 19650401 - KRONE GMBH [DE]

Cited by

CN104641518A; EP2980936A1; FR3024602A1; CN105322498A; WO2019091733A1; US9941669B2; WO2023165761A1

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 2432089 A2 20120321; **EP 2432089 A3 20141105**; **EP 2432089 B1 20170315**; CN 102544833 A 20120704; CN 102544833 B 20151125; DE 102011013300 A1 20120322; DE 102011013300 B4 20131010; HK 1170854 A1 20130308; SI 2432089 T1 20170731

DOCDB simple family (application)

EP 11006746 A 20110818; CN 201110310116 A 20110920; DE 102011013300 A 20110307; HK 12111423 A 20121112; SI 201131197 A 20110818