

Title (en)
HIGH-VOLTAGE CONNECTOR AND ELECTRICAL CONNECTOR ASSEMBLY HAVING THE SAME

Title (de)
HOCHSPANNUNGSVERBINDER UND ELEKTRISCHE VERBINDERANORDNUNG DAMIT

Title (fr)
CONNECTEUR HAUTE TENSION ET ENSEMBLE CONNECTEUR ÉLECTRIQUE LE COMPRENANT

Publication
EP 4228103 A1 20230816 (EN)

Application
EP 22172744 A 20220511

Priority
CN 202220265645 U 20220209

Abstract (en)
A high-voltage connector is disclosed. The high-voltage connector contains TPA and CPA mechanisms, and is designed to be a female electrical connector. After connecting a male electrical connector to the high-voltage connector, N numbers of first terminals in the male electrical connector contacts N numbers of second terminals in the female electrical connector (i.e., the high-voltage connector), respectively. In the meantime, the TPA mechanism actuates to fix the connection between each first terminal and each second terminal. Moreover, the CPA mechanism also actuates to fix the connection between a first insulative housing of the male electrical connector and a second insulative housing of female electrical connector. It is worth further stating that, high-voltage connector has many advantages, including being modularized and having simple structure.

IPC 8 full level
H01R 13/627 (2006.01); **H01R 13/639** (2006.01)

CPC (source: EP)
H01R 13/193 (2013.01); **H01R 13/6273** (2013.01); **H01R 13/639** (2013.01); **H01R 13/426** (2013.01); **H01R 13/641** (2013.01)

Citation (applicant)
• CN 112088469 A 20201215 - FCI USA CO LTD
• TW 201818615 A 20180516 - MOLEX LLC [US]

Citation (search report)
• [AD] EP 3766140 A1 20210120 - FCI USA LLC [US]
• [AD] TW 201818615 A 20180516 - MOLEX LLC [US]
• [A] DE 19617820 A1 19971113 - FRAMATOME CONNECTORS INT [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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
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