

Title (en)
MODULAR CONNECTOR SYSTEM

Title (de)
MODULARES STECKVERBINDERSYSTEM

Title (fr)
SYSTÈME DE CONNECTEUR ENFICHABLE MODULAIRE

Publication
EP 3923419 A1 20211215 (DE)

Application
EP 21000177 A 20190717

Priority
• DE 102018118774 A 20180802
• EP 19749180 A 20190717
• DE 2019100659 W 20190717

Abstract (en)
[origin: WO2020025087A1] The invention relates to a plug-in connector (1, 1', 1'', 1''', 1IV, 1V, 1VII, 1VII, 1VIII), substantially consisting of an insulating body (2, 2') and at least one contact element (4, 4', 4'', 4''', 4IV, 4V, 4VII, 4VII) which is mounted directly in the insulating body (2, 2'), wherein the insulating body (2, 2') directly forms the plug-in connector housing of the plug-in connector (1, 1', 1'', 1''', 1IV, 1V, 1VII, 1VII, 1VIII). The plug-in connector (1, 1', 1'', 1''', 1IV, 1V, 1VII, 1VII, 1VIII) is of particularly simple construction and can therefore be manufactured quickly. In addition, the plug-in connector (1, 1', 1'', 1''', 1IV, 1V, 1VII, 1VII, 1VIII) is of very robust design and suitable for industrial use, in particular in harsh environments.

Abstract (de)
Die Erfindung betrifft einen Steckverbinder (1, 1', 1'', 1''', 1^{IV}, 1^V, 1^{VII}, 1^{VII}, 1^{VIII}/sup>), im Wesentlichen bestehend aus einem Isolierkörper (2, 2') und zumindest einem Kontaktelement (4, 4', 4'', 4''', 4^{IV}, 4^V, 4^{VII}, 4^{VII}/sup>), welches direkt im Isolierkörper (2, 2') befestigt ist, wobei der Isolierkörper (2, 2') direkt das Steckverbindergehäuse des Steckverbinders (1, 1', 1'', 1''', 1^{IV}, 1^V, 1^{VII}, 1^{VII}, 1^{VIII}/sup>) bildet. Der Steckverbinder (1, 1', 1'', 1''', 1^{IV}, 1^V, 1^{VII}, 1^{VII}, 1^{VIII}/sup>) ist besonders einfach aufgebaut und kann somit schnell konfektioniert werden. Außerdem ist der Steckverbinder (1, 1', 1'', 1''', 1^{IV}, 1^V, 1^{VII}, 1^{VII}, 1^{VIII}/sup>) sehr robust ausgeführt und für den industriellen Einsatz, insbesondere in rauen Umgebungen, geeignet.

IPC 8 full level
H01R 13/506 (2006.01); **H01R 9/05** (2006.01); **H01R 13/52** (2006.01); **H01R 13/58** (2006.01); **H01R 13/627** (2006.01); **H01R 13/629** (2006.01); **H01R 13/6592** (2011.01)

CPC (source: EP KR RU US)
H01R 9/0518 (2013.01 - EP KR RU US); **H01R 13/506** (2013.01 - EP KR RU US); **H01R 13/5208** (2013.01 - KR); **H01R 13/5812** (2013.01 - KR); **H01R 13/6272** (2013.01 - KR); **H01R 13/62938** (2013.01 - KR); **H01R 13/6592** (2013.01 - KR); **H01R 13/5208** (2013.01 - EP); **H01R 13/5812** (2013.01 - EP); **H01R 13/6272** (2013.01 - EP US); **H01R 13/62938** (2013.01 - EP); **H01R 13/6592** (2013.01 - EP)

Citation (applicant)
• EP 0945929 A2 19990929 - ACKERMANN ALBERT GMBH CO [DE], et al
• US 1672521 A 19280605 - GOLDRICK ALBERT R
• GB 1537061 A 19781229 - STANDARD TELEPHONES CABLES LTD
• EP 0424699 A2 19910502 - PFISTERER ELEKTROTECH KARL [DE]
• US 2004235321 A1 20041125 - MIZUMURA AKINORI [JP], et al
• DE 102015113786 A1 20170223 - HARTING ELECTRIC GMBH & CO KG [DE]

Citation (search report)
• [XYI] DE 29823003 U1 20000427 - GROTE & HARTMANN [DE]
• [XYI] US 2004235364 A1 20041125 - MATSUMOTO MITSUHIRO [JP], et al
• [XYI] EP 1971000 A2 20080917 - J S T MFG CO LTD [JP], et al
• [XYI] EP 1873871 A2 20080102 - SUMITOMO WIRING SYSTEMS [JP]
• [XYI] DE 202008009894 U1 20080911 - JESS LINK PRODUCTS CO LTD [TW]
• [YA] US 4010538 A 19770308 - O'KEEFE MICHAEL FRANCIS, et al

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)
WO 2020025087 A1 20200206; CN 112514173 A 20210316; CN 117954903 A 20240430; CN 117954904 A 20240430; DE 102018118774 A1 20200206; DE 102018118774 B4 20220714; EP 3830911 A1 20210609; EP 3923419 A1 20211215; KR 20210034662 A 20210330; RU 2764584 C1 20220118; US 11557845 B2 20230117; US 2021313714 A1 20211007

DOCDB simple family (application)
DE 2019100659 W 20190717; CN 201980051213 A 20190717; CN 202410202818 A 20190717; CN 202410202872 A 20190717; DE 102018118774 A 20180802; EP 19749180 A 20190717; EP 21000177 A 20190717; KR 20217005749 A 20190717; RU 2021104646 A 20190717; US 201917259953 A 20190717