

Title (en)
HIGH-CURRENT ELECTRICAL CONNECTOR

Title (de)
ELEKTRISCHER HOCHSTROMVERBINDER

Title (fr)
CONNECTEUR ÉLECTRIQUE À COURANT ÉLEVÉ

Publication
EP 3467949 A1 20190410 (EN)

Application
EP 18198056 A 20181001

Priority
US 201715724682 A 20171004

Abstract (en)
A high-current electrical connector (10) includes a female electrical-terminal (14) and a contact-spring (32). The female electrical-terminal (14) is configured to receive a male electrical-terminal (16) and is formed of a single piece of electrically conductive material. The female electrical-terminal (14) has a first-sidewall (20) and a second-sidewall (22). The second-sidewall (22) defines a distal-end (26), a proximal-end (28), and a medial-zone (30). The first-sidewall (20) is opposite and parallel to the distal-end (26) of the second-sidewall (22). The contact-spring (32) is formed of a single piece of electrically conductive material disposed intermediate to the first-sidewall (20) and the second-sidewall (22). The contact-spring (32) defines a plurality of opposed-pair contact-beams (36). Each of the opposed-pair of contact-beams (36) have a plurality of outer-contact-points (38) and a plurality of inner-contact-points (42). The plurality of outer-contact-points (38) are in contact with the female electrical-terminal (14), and the plurality of inner-contact-points (42) contact opposed sides of the male electrical-terminal (16). Contact is formed between the contact-beam (36), the female electrical-terminal (14), and the male electrical-terminal (16) in at least four separate locations.

IPC 8 full level
H01R 13/187 (2006.01); **H01R 13/11** (2006.01)

CPC (source: CN EP US)
H01R 13/052 (2013.01 - US); **H01R 13/113** (2013.01 - EP US); **H01R 13/187** (2013.01 - CN EP US); **H01R 13/193** (2013.01 - US); **H01R 13/26** (2013.01 - US); **H01R 13/28** (2013.01 - US); **H01R 13/44** (2013.01 - US); **H01R 13/502** (2013.01 - US); **H01R 13/5202** (2013.01 - US); **H01R 13/5208** (2013.01 - US); **H01R 13/5219** (2013.01 - US); **H01R 13/53** (2013.01 - US); **H01R 13/5812** (2013.01 - US); **H01R 13/62** (2013.01 - US); **H01R 13/6215** (2013.01 - US); **H01R 13/665** (2013.01 - US); **H01R 24/66** (2013.01 - US); **H01R 43/16** (2013.01 - US); **H01R 4/023** (2013.01 - EP); **H01R 4/5091** (2013.01 - US); **H01R 13/207** (2013.01 - US); **H01R 13/44** (2013.01 - EP); **H01R 13/6335** (2013.01 - US); **H01R 13/6683** (2013.01 - US); **H01R 24/66** (2013.01 - EP); **H01R 2103/00** (2013.01 - EP); **H01R 2201/26** (2013.01 - CN EP US)

Citation (search report)
• [X] US 2012156947 A1 20120621 - TYLER ADAM PRICE [US]
• [X] US 2003194919 A1 20031016 - HSIEH SHAO C [US], et al

Cited by
EP4283795A1

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

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EP 3467949 A1 20190410; **EP 3467949 B1 20210421**; CN 109616808 A 20190412; CN 109616808 B 20220419

DOCDB simple family (application)
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