

Title (en)  
HIGH-CURRENT ELECTRICAL CONNECTOR

Title (de)  
ELEKTRISCHER HOCHSTROMVERBINDER

Title (fr)  
CONNECTEUR ÉLECTRIQUE À COURANT ÉLEVÉ

Publication  
**EP 3467949 B1 20210421 (EN)**

Application  
**EP 18198056 A 20181001**

Priority  
US 201715724682 A 20171004

Abstract (en)  
[origin: EP3467949A1] 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)

Cited by  
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Designated contracting state (EPC)  
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**EP 3467949 A1 20190410**; **EP 3467949 B1 20210421**; CN 109616808 A 20190412; CN 109616808 B 20220419

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**EP 18198056 A 20181001**; CN 201811167542 A 20181008