Title (en)

Electromagnetic connector

Title (de)

Elektromagnetischer Verbinder

Title (fr)

Connecteur électromagnétique

Publication

EP 2892061 A3 20150812 (EN)

Application

EP 14180106 A 20140806

Priority

US 201313959888 A 20130806

Abstract (en)

[origin: EP2892061A2] An electromagnetic connector is disclosed that is configured to form a first magnetic circuit portion comprising multiple coils disposed about a first core member. The electromagnetic connector is configured to mate with a second electromagnetic connector that is configured to form a second magnetic circuit portion comprising a coil disposed about a second core member. When the electromagnetic connector is mated with the second electromagnetic connector, the first core member and the second core member are configured to couple the multiple coils of the electromagnetic connector to the coil of the second electromagnetic connector with a magnetic circuit formed from the first magnetic circuit portion and the second magnetic circuit portion. The magnetic circuit is configured to induce a signal in a first coil of the multiple coils and the coil of the second electromagnetic connector when a second coil of the multiple coils is energized.

IPC 8 full level

H01F 38/14 (2006.01)

CPC (source: EP)

H01F 38/14 (2013.01)

Citation (search report)

- [XY] US 2008303351 A1 20081211 - JANSEN GERARDUS LUCIEN MATHIDUS [NL], et al
- [XY] EP 2450921 A1 20120509 - RAFI GMBH & CO KG [DE], et al
- [XY] EP 1176616 A2 20020130 - MATSUSHITA ELECTRIC WORKS LTD [JP]
- [Y] WO 2013102069 A1 20130704 - MAXIM INTEGRATED PRODUCTS [US]
- [A] EP 1246563 A1 20021009 - SIEMENS MEDICAL SOLUTIONS [US]

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 2892061 A2 20150708; **EP 2892061 A3 20150812**; **EP 2892061 B1 20181226**; CN 104347256 A 20150211; CN 104347256 B 20181218; JP 2015032836 A 20150216; JP 6584758 B2 20191002

DOCDB simple family (application)

EP 14180106 A 20140806; CN 201410383686 A 20140806; JP 2014159475 A 20140805