

Title (en)
THREE-PHASE ELECTRICAL CONNECTION SYSTEM

Title (de)
DREIPHASIGES ELEKTRISCHES VERBINDUNGSSYSTEM

Title (fr)
SYSTÈME DE CONNEXION ÉLECTRIQUE TRIPHASÉE

Publication
EP 3970240 C0 20240131 (FR)

Application
EP 20723422 A 20200507

Priority
• FR 1905071 A 20190515
• EP 2020062784 W 20200507

Abstract (en)
[origin: WO2020229321A1] The invention relates to a three-phase electrical connection system comprising a socket (S), an electric plug (F) and a magnetic indexing device (1) in two parts, a first part (2) fixed to the socket (S) and a second part (3) rigidly connected to the plug (F), the first part (2) and the second part (3) of the magnetic indexing device each comprising: - a yoke (20, 30); - three identical permanent magnets (201_1, 201_2, 201_3, 301_1, 301_2, 301_3) from a first set, each fixed on a separate annular portion of the yoke; - the three magnets being spaced apart from each other by a first non-zero constant angular interval (I1); - the magnets all having the same magnetic orientation, parallel to the axis of rotation, the permanent magnets of the first part being magnetically attracted by the permanent magnets of the second part.

IPC 8 full level
H01R 13/62 (2006.01); **H01R 13/629** (2006.01); **H01R 13/631** (2006.01); **H01R 13/645** (2006.01); **H01R 24/86** (2011.01)

CPC (source: CN EP KR US)
H01R 13/04 (2013.01 - CN); **H01R 13/10** (2013.01 - CN); **H01R 13/6205** (2013.01 - CN EP KR US); **H01R 13/629** (2013.01 - KR); **H01R 13/631** (2013.01 - KR US); **H01R 13/645** (2013.01 - EP KR US); **H01R 24/00** (2013.01 - CN); **H01R 24/86** (2013.01 - KR US); **H01R 13/629** (2013.01 - EP); **H01R 13/631** (2013.01 - EP); **H01R 24/86** (2013.01 - EP); **H01R 2105/00** (2013.01 - EP KR 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

Participating member state (EPC – UP)
AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT SE SI

DOCDB simple family (publication)
WO 2020229321 A1 20201119; BR 112021022717 A2 20220104; CN 114375529 A 20220419; EP 3970240 A1 20220323; EP 3970240 B1 20240131; EP 3970240 C0 20240131; ES 2975489 T3 20240708; FR 3096184 A1 20201120; FR 3096184 B1 20210730; JP 2022532621 A 20220715; KR 20220006630 A 20220117; US 11984684 B2 20240514; US 2022239037 A1 20220728

DOCDB simple family (application)
EP 2020062784 W 20200507; BR 112021022717 A 20200507; CN 202080048515 A 20200507; EP 20723422 A 20200507; ES 20723422 T 20200507; FR 1905071 A 20190515; JP 2021568015 A 20200507; KR 20217040603 A 20200507; US 202017610744 A 20200507