

Title (en)
ELECTRICAL CONNECTOR ASSEMBLY WITH MATING LEVER, SYSTEM COMPRISING SUCH ASSEMBLY AND METHOD FOR MATING SUCH SYSTEM

Title (de)
ELEKTRISCHE VERBINDERANORDNUNG MIT EINEM PASSENDEN HEBEL

Title (fr)
ENSEMBLE CONNECTEUR ÉLECTRIQUE AVEC LEVIER D'ACCOUPLEMENT

Publication
EP 3975346 A1 20220330 (EN)

Application
EP 20198430 A 20200925

Priority
EP 20198430 A 20200925

Abstract (en)
The present disclosure relates to an electrical connector assembly, a system and a method. The assembly comprises a housing 100, that houses at least one electrical contact a mating lever 200 that is arranged pivotable relative to the housing 100 between an alignment position and a mating position. The mating lever is configured to be engageable with the electrical counter connector assembly 2, in order to move the electrical counter connector assembly 2 along a mating direction A relative to the housing into a mated configuration, when being pivoted from the alignment position to the mating position. The mating lever 200 includes at least one first slide track 220 that is engageable with a corresponding first slide member 20 of the electrical counter connector assembly. The first slide track is shaped so that the pivoting movement of the mating lever 200 is transferred into an axial movement of the electrical counter connector assembly via the first slide member 20, if the first slide member is engaged with the first slide track. The first slide track 220 has a curved shape that is composed of at least two radius segments, wherein a center of a first radius segment is different from a center of a second segment, wherein each of the radius segments defines a transmission ratio between the pivoting movement of the mating lever 200 and the movement of the electrical counter connector assembly along the mating direction A.

IPC 8 full level
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CPC (source: EP)
H01R 13/62938 (2013.01); **H01R 13/6295** (2013.01); **H01R 13/62955** (2013.01); **H01R 2107/00** (2013.01)

Citation (applicant)
WO 2010035247 A2 20100401 - FRAMATOME CONNECTORS INT [FR], et al

Citation (search report)
• [XYI] JP H10241786 A 19980911 - SUMITOMO WIRING SYSTEMS
• [YA] WO 2007044393 A2 20070419 - FCI AMERICAS TECHNOLOGY INC [US], et al
• [A] EP 0731536 A2 19960911 - FRAMATOME CONNECTORS INT [FR]

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