

Title (en)
CIRCULAR RAPID-JOINT CONNECTOR

Title (de)
KREISFÖRMIGER SCHNELLGELENKVERBINDER

Title (fr)
CONNECTEUR RAPIDE CIRCULAIRE

Publication
EP 3157105 B1 20200701 (EN)

Application
EP 15201424 A 20151218

Priority
• TW 104216558 U 20151016
• TW 104219896 U 20151211

Abstract (en)
[origin: EP3157105A1] The invention is a circular rapid-joint connector comprising a sliding bush; an elastic element provided on the inner edge of the sliding bush; a holding unit joined with the sliding bush movably; and a connector plug penetrating into the sliding bush and joined with the holding unit. Thereby, in assembling, direct docking with a connection socket by the connector plug is available for the connection socket to push away the sliding bush. After the connection socket and the connector plug are snap-fitting, the sliding bush is pushed back by the elastic element automatically, such that the sliding bush is locked to the outer edge of the connection socket to complete the operation of assemblage. In disassembling, the sliding bush is pulled backwards such that the sliding bush is not limited to the outer edge of the connection socket any more. After that, a force may be applied to remove the connector plug from the connection socket directly, so that the effects of rapid assembling, solid joining, rapid disassembling, simple structure and facile of use are accomplished.

IPC 8 full level
H01R 13/506 (2006.01); **H01R 13/627** (2006.01); **H01R 13/635** (2006.01); **H01R 13/46** (2006.01); **H01R 13/59** (2006.01); **H01R 13/64** (2006.01)

CPC (source: EP)
H01R 13/506 (2013.01); **H01R 13/6277** (2013.01); **H01R 13/635** (2013.01); **H01R 13/465** (2013.01); **H01R 13/59** (2013.01); **H01R 13/64** (2013.01)

Citation (examination)
• US 5176533 A 19930105 - SAKURAI YUJI [JP], et al
• US 2005250365 A1 20051110 - STARKE CORD [DE], et al

Cited by
CN112072336A; EP3531512A1; CN114340142A; EP3531512B1

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

DOCDB simple family (publication)
EP 3157105 A1 20170419; EP 3157105 B1 20200701

DOCDB simple family (application)
EP 15201424 A 20151218