

Title (en)
CIRCULAR RAPID-JOINT CONNECTOR

Title (de)
KREISFÖRMIGER SCHNELLGELENKVERBINDER

Title (fr)
CONNECTEUR RAPIDE CIRCULAIRE

Publication
EP 3157105 A1 20170419 (EN)

Application
EP 15201424 A 20151218

Priority
• TW 104216558 U 20151016
• TW 104219896 U 20151211

Abstract (en)
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)
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Citation (applicant)
US 6517373 B2 20030211 - FINKE HANS MICHAEL [DE], et al

Citation (search report)
• [XDY] US 6517373 B2 20030211 - FINKE HANS MICHAEL [DE], et al
• [XY] WO 9208259 A1 19920514 - CM SRL [IT]
• [XY] DE 102006040254 A1 20080313 - FRANZ BINDER GMBH & CO ELEK SC [DE]
• [XY] US 6464526 B1 20021015 - SEUFERT RALF [DE], et al
• [XY] US 4017139 A 19770412 - NELSON WILFRED

Cited by
CN112072336A; CN114340142A; EP3531512A1; EP3531512B1

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