

Title (en)
TOOLLESS QUICK CONNECT REBAR COUPLER

Title (de)
WERKZEUGLOSE SCHNELLKUPPLUNG FÜR BEWEHRUNGSSTÄBE

Title (fr)
COUPLEUR DE BARRE D'ARMATURE À CONNEXION RAPIDE SANS OUTIL

Publication
EP 3730715 A1 20201028 (EN)

Application
EP 20171372 A 20200424

Priority
US 201962839343 P 20190426

Abstract (en)
A rebar coupler having a casing with two opposite ends disposed along a central longitudinal axis. Each opposite end includes a frustum-shaped internal wall tapering along the axis from an inward to an outward position, as well as an assembly of a plurality of locking jaws, arrayed around the axis and engaging the internal wall, at least a portion of a spring, aligned with the axis and engaging the locking jaws, and a spacer, initially positioned within and engaging the locking jaws to separate the locking jaws and bias the assembly towards the inward position. The spacer is ejectable from the locking jaws through a center of the spring by insertion of a rebar end through the outward position and past the initial position of the spacer, whereupon the spring biases the locking jaws toward the outward position and into full engagement with the rebar end.

IPC 8 full level
E04C 5/16 (2006.01)

CPC (source: EP US)
E04C 5/165 (2013.01 - EP US)

Citation (search report)
• [XYI] KR 101941127 B1 20190122 - BEST COUPLER CO LTD [KR]
• [X] KR 101683146 B1 20161206 - CK INTERSTEEL CO LTD [KR]
• [Y] KR 101851104 B1 20180420 - UNIFLO CO LTD [KR], et al

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 3730715 A1 20201028; AU 2020202777 A1 20201112; CA 3079344 A1 20201026; CO 2020005104 A1 20210430;
US 2020340250 A1 20201029

DOCDB simple family (application)
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