

Title (en)

JOINT FOR CONCRETE-FILLED STEEL TUBULAR STRUCTURES

Title (de)

VERBINDUNG FÜR BETONGEFÜLLTE STAHLROHRSTRUKTUREN

Title (fr)

JOINT POUR STRUCTURES TUBULAIRES EN ACIER REMPLIES DE BÉTON

Publication

EP 4001532 A1 20220525 (EN)

Application

EP 20383009 A 20201119

Priority

EP 20383009 A 20201119

Abstract (en)

Joint for concrete-filled steel tubular structures, of the type that joins two axially-aligned tubular steel segments (1). It comprises a tubular connector (2) between both steel segments (1), in a tongue and groove connection with each steel segment (1). The connector is locked against rotation by the concrete (10) filling. The male part of each tongue and groove connection comprises a circular wall (3) where at least two projections (4) are placed, the projections (4) being evenly distributed around the outside of the circular wall (3). The female part has a shell (5), the inside of the shell carrying at least two teeth (6) that define a circular hole (7) for the insertion of the circular wall (3); so the projections (4) fit between and behind the teeth (6).

IPC 8 full level

E04B 1/24 (2006.01)

CPC (source: EP)

E04B 1/2403 (2013.01); **E04B 2001/2451** (2013.01); **E04B 2001/246** (2013.01); **E04B 2001/2478** (2013.01)

Citation (search report)

- [X] US 2019376273 A1 20191212 - MOU BEN [CN], et al
- [X] JP 2011220049 A 20111104 - CHIYODA GEOTECH CO LTD

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 4001532 A1 20220525; **EP 4001532 B1 20230823**; **EP 4001532 C0 20230823**; ES 2956371 T3 20231220

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