

Title (en)
Concrete tower formed with precast pieces

Title (de)
Betonturm aus vorgefertigten Teilen

Title (fr)
Tour de béton formée de pièces préfabriquées

Publication
EP 2857614 A1 20150408 (EN)

Application
EP 13187277 A 20131003

Priority
EP 13187277 A 20131003

Abstract (en)
Hollow tower (11) comprising a plurality of vertical sections (13) formed by several concrete precast pieces (15), being the precast pieces (15) of two contiguous vertical sections (13) arranged staggered so that each precast piece (15) of the upper section rests on at least two adjacent precast pieces (15) of the lower section; and the attachment means of the precast pieces (15) comprise tensor cables (17) which are arranged inside the tower (11) linking in zigzag each precast piece (15) of a vertical section (13) with the adjacent precast pieces (15) of the lower section and forming tensioning rings that join them together.

IPC 8 full level
E04H 12/16 (2006.01)

CPC (source: EP)
E04H 12/16 (2013.01)

Citation (applicant)
• WO 2006111597 A1 20061026 - STRUCTURAL CONCRETE & STEEL S [ES], et al
• WO 03069099 A1 20030821 - MECAL APPLIED MECHANICS B V [NL], et al

Citation (search report)
• [AD] EP 1876316 A1 20080109 - STRUCTURAL CONCRETE & STEEL S [ES]
• [A] EP 0447310 A1 19910918 - BOUYGUES OFFSHORE [FR]
• [A] DE 20313486 U1 20031127 - MAAS GMBH [DE]
• [A] WO 2010044380 A1 20100422 - TAKENAKA CORP [JP], et al

Cited by
US11118570B2; US10024306B2; WO2017046624A1; WO2019026056A3; EP3438381A1; CN111065788A; EP3683383A1; JP2020529539A

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 2857614 A1 20150408; WO 2015049362 A1 20150409

DOCDB simple family (application)
EP 13187277 A 20131003; EP 2014071213 W 20141002