

Title (en)

SUPPORT MEMBER, FORM FOR PLACING CONCRETE, AND METHOD FOR CONSTRUCTING CONCRETE STRUCTURE

Title (de)

TRÄGERELEMENT, FORM ZUM SETZEN VON BETON UND VERFAHREN ZUR KONSTRUKTION EINER BETONSTRUKTUR

Title (fr)

ÉLÉMENT DE SUPPORT, FORME POUR PLACER DU BÉTON, ET PROCÉDÉ DE CONSTRUCTION DE STRUCTURE EN BÉTON

Publication

EP 3330458 A1 20180606 (EN)

Application

EP 16832889 A 20160728

Priority

- JP 2015152122 A 20150731
- JP 2016072133 W 20160728

Abstract (en)

The purpose of the present invention is to provide a reusable support member capable of facilitating assembly and disassembly of a form, and a concrete placing form or a method for constructing a concrete structure using the support member. A reusable support member for supporting outer side surfaces of concrete panels providing cavity as predetermined space for placing concrete, comprising: a plurality of horizontal rails with a length according to width of the concrete panels; a plurality of vertical rails with length according to height of the concrete panels; and bolt and nut structures for locking the concrete panels into inner direction of the cavity by penetrating intersections in which respectively parallel the plurality of horizontal rails and the plurality of vertical rails are combined in lattice shape, wherein, in at least either of the horizontal rails and the vertical rails relating to the intersections, recesses capable of fitting in opposing rails by receiving a width and a part or all of a thickness of opposing rails are arranged, the horizontal rails and the vertical rails are configured by channel steel or metal material with equivalent shape, and the horizontal rails and the vertical rails combined in the lattice shape contact the outer side surfaces of the concrete panels at equal intervals respectively.

IPC 8 full level

E04G 17/00 (2006.01); **E04B 2/86** (2006.01); **E04G 17/065** (2006.01)

CPC (source: EP KR US)

E04B 2/847 (2013.01 - KR); **E04B 2/86** (2013.01 - KR US); **E04B 2/8647** (2013.01 - EP US); **E04G 11/12** (2013.01 - EP US); **E04G 17/02** (2013.01 - KR); **E04G 17/065** (2013.01 - KR US); **E04G 17/0654** (2013.01 - EP US); **E04B 2002/8682** (2013.01 - US); **E04B 2002/8688** (2013.01 - US)

Cited by

USD990301S; US11788571B2

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 3330458 A1 20180606; **EP 3330458 A4 20190109**; CN 107849855 A 20180327; JP 2017031647 A 20170209; JP 6655320 B2 20200226; KR 20180037977 A 20180413; US 2018258637 A1 20180913; WO 2017022610 A1 20170209

DOCDB simple family (application)

EP 16832889 A 20160728; CN 201680044989 A 20160728; JP 2015152122 A 20150731; JP 2016072133 W 20160728; KR 20187004080 A 20160728; US 201615749084 A 20160728