

Title (en)  
Composite system of refractory ceramic stones

Title (de)  
Verbundsystem von feuerfesten keramischen Steinen

Title (fr)  
Système composite de pierres céramiques réfractaires

Publication  
**EP 2796821 A1 20141029 (DE)**

Application  
**EP 13165469 A 20130426**

Priority  
EP 13165469 A 20130426

Abstract (en)  
[origin: CA2899548A1] The invention relates to a linkage system for fireproof ceramic bricks for forming an arch-like support structure. According to the invention, the bricks have two interlocking elements in the X- and Y-directions which at the same time stabilize the linkage in the Z-direction. This makes it possible to easily arrange the bricks with continuous linkage in the X- and Y-directions but also in the Z-direction of the coordinate system.

Abstract (de)  
Die Erfindung betrifft ein Verbundsystem von feuerfesten keramischen Steinen zur Ausbildung einer gewölbartigen Tragkonstruktion. Die Verbindung benachbarter Steine erfolgt über korrespondierende Profilierungen an den Aussenflächen der Steine in X- und Y-Richtung, wodurch es möglich ist, alle Steine innerhalb einer Lage, d.h. nebeneinander in X-Richtung und hintereinander in Y-Richtung, formschlüssig zu einer Tragkonstruktion anzuordnen. Daraus ergibt sich unmittelbar eine Stabilisierung der gesamten Tragkonstruktion.

IPC 8 full level  
**E04C 3/02** (2006.01); **F27D 1/02** (2006.01); **F27D 1/04** (2006.01)

CPC (source: EP RU US)  
**E04C 3/02** (2013.01 - EP US); **F27D 1/025** (2013.01 - EP US); **F27D 1/04** (2013.01 - EP US); **E04B 2002/0265** (2013.01 - EP US); **F27D 1/02** (2013.01 - RU)

Citation (applicant)  
• DE 3933744 C2 19910718  
• EP 1255088 B1 20040303 - REFRATECHNIK HOLDING GMBH [DE]

Citation (search report)  
[X1] DE 481676 C 19290827 - LEVI SNYDER LONGENECKER

Cited by  
EP3447423A1; WO2019038179A1

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 2796821 A1 20141029**; BR 112015020961 A2 20170718; BR 112015020961 B1 20201110; CA 2899548 A1 20141030; CA 2899548 C 20180116; CN 105026865 A 20151104; EP 2989403 A1 20160302; EP 2989403 B1 20170315; ES 2624660 T3 20170717; JP 2016524115 A 20160812; JP 6377134 B2 20180822; MX 2015011186 A 20151109; MX 366892 B 20190729; PL 2989403 T3 20170831; RU 2015131039 A 20170602; RU 2639179 C2 20171220; US 10048005 B2 20180814; US 2016003544 A1 20160107; WO 2014173563 A1 20141030

DOCDB simple family (application)  
**EP 13165469 A 20130426**; BR 112015020961 A 20140226; CA 2899548 A 20140226; CN 201480011569 A 20140226; EP 14706648 A 20140226; EP 2014053769 W 20140226; ES 14706648 T 20140226; JP 2016509332 A 20140226; MX 2015011186 A 20140226; PL 14706648 T 20140226; RU 2015131039 A 20140226; US 201414770392 A 20140226