

Title (en)
ACID-BASED BINDER COMPRISING PHOSPHATE-BASED CEMENTS

Title (de)
SÄUREBASIERTES BINDEMittel MIT PHOSPHAT-BASIERTEN ZEMENTEN

Title (fr)
LIANT ACIDO-BASIQUE COMPRENANT DES CEMENTS A BASE DE PHOSPHATE

Publication
EP 3237354 A2 20171101 (FR)

Application
EP 15832810 A 20151221

Priority
• FR 1463243 A 20141223
• FR 2015053692 W 20151221

Abstract (en)
[origin: CA2970705A1] The invention describes a phosphate-based inorganic binder obtained by reaction between at least one basic constituent and an acidic phosphate salt, in the presence of a retarder which is an X+A⁻ salt, the solubility of which in an aqueous medium, measured at 25°C, is greater than that of the acidic phosphate salt, and in which X⁺ is a cation chosen from alkali metals, alkaline earth metals, zinc, aluminium and the ammonium ion, and A⁻ is an acetate, formate, benzoate, tartrate, oleate, oxalate, bromide or iodide anion.

IPC 8 full level
C04B 28/34 (2006.01)

CPC (source: CN EP RU US)
C04B 12/02 (2013.01 - RU); **C04B 22/06** (2013.01 - RU); **C04B 22/08** (2013.01 - RU); **C04B 24/14** (2013.01 - RU); **C04B 24/38** (2013.01 - RU); **C04B 28/34** (2013.01 - CN EP RU US); **C04B 28/342** (2013.01 - US); **Y02W 30/91** (2015.05 - EP US)

Citation (search report)
See references of WO 2016102868A2

Citation (examination)
WO 2011030887 A1 20110317 - SUMITOMO OSAKA CEMENT CO LTD [JP], 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)
FR 3030498 A1 20160624; **FR 3030498 B1 20190607**; AR 103189 A1 20170419; BR 112017012561 A2 20180102; CA 2970705 A1 20160630; CL 2017001667 A1 20180316; CN 107428615 A 20171201; EP 3237354 A2 20171101; MX 2017008297 A 20171002; MY 182145 A 20210118; RU 2017126181 A 20190124; RU 2017126181 A3 20190527; RU 2707316 C2 20191126; SA 517381813 B1 20201123; US 10322972 B2 20190618; US 2018186697 A1 20180705; WO 2016102868 A2 20160630; WO 2016102868 A3 20160818

DOCDB simple family (application)
FR 1463243 A 20141223; AR P150104212 A 20151221; BR 112017012561 A 20151221; CA 2970705 A 20151221; CL 2017001667 A 20170622; CN 201580076765 A 20151221; EP 15832810 A 20151221; FR 2015053692 W 20151221; MX 2017008297 A 20151221; MY P12017702323 A 20151221; RU 2017126181 A 20151221; SA 517381813 A 20170622; US 201515538734 A 20151221