

Title (en)
PRODUCTION OF CALCIUM HYDROXIDE NANOPARTICLES AND THEIR USE AS ACCELERATORS IN MINERAL BINDER COMPOSITIONS

Title (de)
HERSTELLUNG VON CALCIUMHYDROXID NANOPARTIKELN UND IHRE VERWENDUNG ALS BESCHLEUNIGER IN MINERALISCHEN BINDEMITTELZUSAMMENSETZUNGEN

Title (fr)
FABRICATION DE NANOPARTICULES D'HYDROXYDE DE CALCIUM ET LEUR UTILISATION COMME ACCÉLÉRATEUR DANS DES COMPOSITIONS MINÉRALES DE LIANT

Publication
EP 3768648 A1 20210127 (DE)

Application
EP 19711610 A 20190322

Priority
• EP 18163482 A 20180322
• EP 2019057201 W 20190322

Abstract (en)
[origin: WO2019180191A1] The invention relates to an aqueous suspension comprising 5 to 65 wt.% of calcium hydroxide, wherein at least 50 wt.% of the calcium hydroxide is present in the form of nanoparticles, and at least one compound for stabilizing the suspension. The aqueous suspension accelerates the setting of mineral binder compositions without adversely affecting the processing properties of the composition.

IPC 8 full level
C04B 28/02 (2006.01); **C01F 11/02** (2006.01); **C04B 40/00** (2006.01); **C04B 103/10** (2006.01)

CPC (source: EP US)
C01F 11/02 (2013.01 - EP US); **C04B 22/064** (2013.01 - US); **C04B 24/2647** (2013.01 - US); **C04B 28/02** (2013.01 - EP); **C04B 40/0039** (2013.01 - EP US); **B82Y 40/00** (2013.01 - US); **C01P 2004/51** (2013.01 - EP US); **C01P 2004/62** (2013.01 - EP US); **C01P 2006/22** (2013.01 - EP US); **C04B 2103/10** (2013.01 - EP); **C04B 2103/12** (2013.01 - US)

Citation (search report)
See references of WO 2019180191A1

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 3543220 A1 20190925; AU 2019237203 A1 20200820; CN 112292363 A 20210129; CN 112292363 B 20230310; EP 3768648 A1 20210127; JP 2021516203 A 20210701; JP 7328979 B2 20230817; MX 2020009886 A 20201012; US 11780738 B2 20231010; US 2021053837 A1 20210225; WO 2019180191 A1 20190926

DOCDB simple family (application)
EP 18163482 A 20180322; AU 2019237203 A 20190322; CN 201980020046 A 20190322; EP 19711610 A 20190322; EP 2019057201 W 20190322; JP 2020543859 A 20190322; MX 2020009886 A 20190322; US 201916976704 A 20190322