

Title (en)  
USE OF AT LEAST ONE CELLULOSE ETHER FOR REDUCING PLASTIC SHRINKAGE AND/OR PLASTIC CRACKING IN CONCRETE

Title (de)  
VERWENDUNG VON MINDESTENS EINEM CELLULOSEETHER ZUR VERRINGERUNG DES PLASTISCHEN SCHRUMPFS UND/ODER DER PLASTISCHEN RISSBILDUNG IN BETON

Title (fr)  
UTILISATION D'AU MOINS UN ETHER DE CELLULOSE POUR REDUIRE LE RETRAIT ET/OU LA FISSURATION PLASTIQUE DANS LE BETON

Publication  
**EP 2358649 A1 20110824 (FR)**

Application  
**EP 09784265 A 20090710**

Priority  

- FR 2009000858 W 20090710
- FR 0806348 A 20081114

Abstract (en)  
[origin: WO2010055214A1] The subject of the present invention is the use, in order to reduce plastic shrinkage and/or to reduce plastic cracking in concrete, of at least one cellulose ether having either a degree of substitution by methoxy radicals (MDS), or a degree of substitution (DS) between 1.17 and 2.33.

IPC 8 full level  
**C04B 28/02** (2006.01); **C04B 24/38** (2006.01); **C04B 103/56** (2006.01)

CPC (source: EP US)  
**C04B 24/383** (2013.01 - EP US); **C04B 28/02** (2013.01 - EP US); **C04B 2103/58** (2013.01 - EP US)

Citation (search report)  
See references of WO 2010055214A1

Citation (examination)  

- US 4188231 A 19800212 - VALORE RUDOLPH C [US]
- T R: "NATROSOL Hydroxyethylcellulose A Nonionic Water-Soluble Polymer Physical and Chemical Properties", 31 December 1999 (1999-12-31), XP055093872, Retrieved from the Internet <URL:http://www.brenntagsspecialties.com/en/downloads/Products/Multi\_Market\_Principals/Aqualon/Natrosol\_HEC\_Booklet.pdf> [retrieved on 20131217]

Designated contracting state (EPC)  
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 SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2010055214 A1 20100520**; CA 2743556 A1 20100520; CA 2743556 C 20170228; EP 2358649 A1 20110824; FR 2938532 A1 20100521; FR 2938532 B1 20110812; MA 32780 B1 20111101; US 2011203488 A1 20110825; US 8282732 B2 20121009

DOCDB simple family (application)  
**FR 2009000858 W 20090710**; CA 2743556 A 20090710; EP 09784265 A 20090710; FR 0806348 A 20081114; MA 33826 A 20110509; US 200913127315 A 20090710