

Title (en)
CORROSION INHIBITION OF REINFORCED CONCRETE

Title (de)
KORROSIONSHEMMUNGSSYSTEM FÜR BEWEHRTEN BETON

Title (fr)
SYSTÈME D'INHIBITION DE CORROSION POUR BÉTON RENFORCÉ

Publication
EP 2504292 A1 20121003 (EN)

Application
EP 10787580 A 20101125

Priority

- EP 09177115 A 20091125
- NL 2010050791 W 20101125
- EP 10787580 A 20101125

Abstract (en)
[origin: EP2327670A1] The invention is directed to a corrosion inhibition system for reinforced concrete, to reinforced concrete comprising said corrosion inhibition system, and to a process for preparing said reinforced concrete, and to the use of said reinforced concrete. In accordance with the invention, a corrosion inhibition system for concrete reinforced with a corrosion sensitive reinforcement is provided, which system comprises layered double hydroxide intercalated with a compound represented by the following formula (I): $\text{Y} \text{---} \text{R} \text{---} \text{COO} \text{---}$ (I) and/or protonated forms thereof, wherein Y is NH₂ or COO⁻ R is an optionally substituted aromatic, aliphatic, or cycloaliphatic moiety having 5-18 carbon atoms.

IPC 8 full level
C04B 22/06 (2006.01); **C01F 7/785** (2022.01); **C04B 24/12** (2006.01); **C04B 40/00** (2006.01)

CPC (source: EP)
C01F 7/785 (2022.01); **C04B 22/06** (2013.01); **C04B 24/123** (2013.01); **C04B 40/0039** (2013.01); **C23F 11/10** (2013.01); **C23F 11/143** (2013.01); **C01P 2002/22** (2013.01); **C01P 2002/72** (2013.01); **C01P 2002/82** (2013.01); **C04B 2103/61** (2013.01); **C04B 2111/00525** (2013.01); **C04B 2111/24** (2013.01); **C04B 2111/26** (2013.01)

Citation (search report)
See references of WO 2011065825A1

Citation (examination)
DE 10235571 A1 20040212 - CLARIANT GMBH [DE]

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

DOCDB simple family (publication)
EP 2327670 A1 20110601; EP 2504292 A1 20121003; WO 2011065825 A1 20110603

DOCDB simple family (application)
EP 09177115 A 20091125; EP 10787580 A 20101125; NL 2010050791 W 20101125