

Title (en)  
OIL-COMPATIBLE CEMENTS

Title (de)  
ÖLKOMPATIBLE ZEMENTE

Title (fr)  
DES CIMENTS COMPATIBLES AVEC LES HUILES

Publication  
**EP 2229422 A1 20100922 (DE)**

Application  
**EP 08858857 A 20081209**

Priority  
• EP 2008067092 W 20081209  
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Abstract (en)  
[origin: WO2009074565A1] The invention relates to a method for producing a cement material for cementing. In said method, a precondensate of at least one hydrolyzable organosilane and/or precondensed oligomer compounds, such as straight-chain or cyclic low-molecular partial condensates (e.g. polyorganosiloxanes) which are partially condensed in a sol-gel process by being hydrolyzed with water, and nanoscale to microscale particles in the form of metal or semimetal compounds, e.g. SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, AlO(OH), Ta<sub>2</sub>O<sub>5</sub>, ZrO<sub>2</sub>, and TiO<sub>2</sub>, which have a maximum particle diameter of 1000 nm, preferably 200 nm, and especially 100 nm relative to the average volume (d<sub>50</sub> value), are added to a cement material containing cement and water for cementing. The obtained cement material is suitable for fixing objects on and in substrates or geological formations and sealing or stabilizing substrates or geological formations.

IPC 8 full level  
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**C04B 28/04** (2013.01 - EP US); **C09K 8/467** (2013.01 - EP US); **C04B 2111/70** (2013.01 - EP US); **Y10T 156/10** (2015.01 - EP US)

C-Set (source: EP US)  
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Citation (search report)  
See references of WO 2009074565A1

Citation (examination)  
• WO 2008049846 A1 20080502 - EPG ENG NANOPROD GERMANY GMBH [DE], et al  
• DE 19647368 A1 19980520 - INST NEUE MAT GEMEIN GMBH [DE]  
• STEFAN GOEDICKE: "Entwicklung und Charakterisierung eines hoch- temperaturbeständigen Bindemittels für Dämm- stoffe aus Glaswolle", DISSERTATION ZUR ERLANGUNG DES GRADES DES DOKTORS DER INGENIEURWISSENSCHAFTEN DER NATURWISSENSCHAFTLICH- TECHNISCHEN FAKULTÄT III CHEMIE, PHARMAZIE UND WERKSTOFFWISSENSCHAFTEN DER UNIVERSITÄT DES SAARLANDES, 7 June 2002 (2002-06-07), pages 1 - 188, XP055250928, Retrieved from the Internet <URL:https://publikationen.sulb.uni-saarland.de/handle/20.500.11880/23800> [retrieved on 20160217]

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