

Title (en)  
Well completion methods

Title (de)  
Bohrabschlussverfahren

Title (fr)  
Procédés de complétion de puits

Publication  
**EP 2767670 A1 20140820 (EN)**

Application  
**EP 13305080 A 20130123**

Priority  
EP 13305080 A 20130123

Abstract (en)  
Methods for improving the bonding of a cement sheath (12) to a tubular body (11) in a subterranean well involve anchoring elements (10) mounted on the outside surface of the tubular body-in the annular space between the tubular body and the borehole wall. The cement contains an expansive agent that causes the cement to expand after it sets. The anchoring elements are mounted such that an angle exists between the elements and the tubular-body surface, thereby providing resistance to cement sheath movement away from the tubular-body surface.

IPC 8 full level  
**E21B 17/00** (2006.01); **E21B 33/14** (2006.01)

CPC (source: EP US)  
**E21B 17/00** (2013.01 - EP US); **E21B 33/14** (2013.01 - EP US)

Citation (applicant)  
• EP 2457974 A1 20120530 - SCHLUMBERGER SERVICES PETROL [FR], et al  
• THIERCELIN MJ ET AL.: "Cement Design Based on Cement Mechanical Response", PAPER SPE, 1998, pages 52890  
• NELSON EB; DROCHON B; MICHAUX M; GRIFFIN TJ: "Well Cementing", 2006, article "Special Cement Systems", pages: 233 - 268

Citation (search report)  
• [X] US 4493372 A 19850115 - RADD FRED J [US], et al  
• [X] US 4495997 A 19850129 - SCOTT JAMES B [US], et al  
• [X] US 4178110 A 19791211 - COBBS JAMES H [US]  
• [X] US 4070832 A 19780131 - GROSCH GOTTLIEB W  
• [X] US 4241789 A 19801230 - GROSCH GOTTLIEB W [US]  
• [A] US 2374317 A 19450424 - WRIGHT KENNETH A  
• [A] EP 0197609 A2 19861015 - SHELL INT RESEARCH [NL]  
• [AD] EP 2457974 A1 20120530 - SCHLUMBERGER SERVICES PETROL [FR], et al

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2767670 A1 20140820**; US 2014202697 A1 20140724

DOCDB simple family (application)  
**EP 13305080 A 20130123**; US 201414161540 A 20140122