

Title (en)  
METHOD FOR ANCHORING AN ATTACHMENT ELEMENT

Title (de)  
VERFAHREN ZUM VERANKERN EINES BEFESTIGUNGSELEMENTS

Title (fr)  
PROCÉDÉ DESTINÉ À L'ANCRAGE D'UN ÉLÉMENT DE FIXATION

Publication  
**EP 2192261 A1 20100602 (DE)**

Application  
**EP 09175875 A 20091113**

Priority  
DE 102008044128 A 20081127

Abstract (en)  
The method involves drilling a borehole (7) in a constructional component (6) with a percussively-rotationally driven hollow drill (12). The produced drillings and drilling dust are aspirated with a vacuum source (26) e.g. vacuum cleaner, between an outer side of the hollow drill and a borehole wall during drilling of the borehole. The borehole is filled with a self-hardenable mortar immediately after formation of the suction-cleaned borehole. A fastening element e.g. threaded rod, is inserted into the self-hardenable mortar. An independent claim is also included for a method for forming a cleaned borehole in a constructional component for anchoring a fastening element in a constructional component with a self-hardenable mortar.

Abstract (de)  
Die Erfindung betrifft ein Verfahren zur Erstellung eines gereinigten Bohrlochs (7) in einem Bauteil (6) zur chemischen Verankerung eines Befestigungselementes (46) im Bauteil (6) unter Verwendung eines Hohlbohrers (12) und einer Vakuumquelle (26) zur Absaugung des anfallenden Bohrkleins und Bohrmehls. Während dem Bohren des Bohrlochs (7) wird mit dem Hohlbohrer (12) mittels der Vakuumquelle (26) das Bohrklein und Bohrmehl durch den Spalt zwischen der Aussenseite des Hohlbohrers (12) und der Wandung des Bohrlochs (7) abgesaugt.

IPC 8 full level  
**E21B 21/015** (2006.01); **E21D 20/00** (2006.01); **B23B 51/00** (2006.01); **B23Q 11/00** (2006.01); **B25D 17/18** (2006.01)

CPC (source: EP US)  
**E21B 21/015** (2013.01 - EP US); **E21D 20/003** (2013.01 - EP US); **Y10T 408/03** (2015.01 - EP US)

Citation (applicant)  
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• DE 19810193 A1 19990916 - HILTI AG [LI]

Citation (search report)  
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• [Y] US 3306051 A 19670228 - HOWLETT GEORGE H  
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• [A] CH 256190 A 19480815 - BALMHOLZ AG [CH], et al  
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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)  
AL BA RS

DOCDB simple family (publication)  
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DOCDB simple family (application)  
**EP 09175875 A 20091113**; DK 09175875 T 20091113; ES 09175875 T 20091113; US 59252409 A 20091124