

Title (en)

Method of anchoring a bolt in a hole.

Title (de)

Verfahren zur Verankerung eines Ankers in einem Bohrloch.

Title (fr)

Procédé pour l'ancrage d'une ancre dans un trou de forage.

Publication

EP 0117690 A1 19840905 (EN)

Application

EP 84301042 A 19840217

Priority

US 46782483 A 19830218

Abstract (en)

A grouting composition for anchoring a reinforcing member in a hole is delivered into the hole in uncartridged, unmixed form. In the hole the reactive components of the grout are present in stable, minimally interpenetrated adjacent columns (3, 4) of fluent material adapted to remain in position in a vertical, overhead hole. When convenient, the reinforcing member is inserted into the columns of material and rotated, whereby the mixed material hardens. The stability of the grout after delivery to the hole frees the user from tight time constraints on the placement of the reinforcing member therein.

IPC 1-7

E21D 20/02

IPC 8 full level

E21D 20/02 (2006.01)

CPC (source: EP)

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Citation (search report)

- GB 1312904 A 19730411 - STRATA MINING PATENTS LTD
- DE 2845107 A1 19800424 - FISCHER ARTUR DR H C
- DE 7913376 U1 19801023
- DE 8201921 U1 19820616
- DD 90115 A
- FR 2418172 A1 19790921 - CELTITE SA [FR]
- GB 1380450 A 19750115 - FOSROC AG
- GB 1312785 A 19730404 - EXPLOSIVES & CHEM PROD
- US 4116368 A 19780926 - SMITH COLEN S
- Patent Abstracts of Japan vol. 5, no. 67, 7 May 1981 & JP-A-56-16530
- Patent Abstracts of Japan vol. 5, no. 128, 18 August 1981 & JP-A-56-62814

Cited by

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Designated contracting state (EPC)

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