

Title (en)  
DEVICE FOR A ROCK WALL

Title (de)  
VORRICHTUNG FÜR EINE FELSWAND

Title (fr)  
DISPOSITIF POUR MUR DE ROCHE

Publication  
**EP 1075587 B1 20031022 (EN)**

Application  
**EP 99947044 A 19990420**

Priority  
• SE 9900626 W 19990420  
• SE 9801476 A 19980427

Abstract (en)  
[origin: WO9956001A1] Device for sealing a rock wall, which device comprises an injection tube (3) adapted to be introduced into a bore hole (30) in the rock wall, into which bore hole filling material (31) is intended to be injected through the injection tube (3). The device also comprises a non-return valve (4) for the filling material, and may be permanently connected to a reinforcement bar (1) in order for the device to achieve both sealing and reinforcement.

IPC 1-7  
**E21D 20/00**; **E21D 21/00**

IPC 8 full level  
**E21D 20/00** (2006.01); **E21D 20/02** (2006.01); **E21D 21/00** (2006.01)

CPC (source: EP KR)  
**E21D 20/00** (2013.01 - KR); **E21D 20/028** (2013.01 - EP); **E21D 21/0046** (2013.01 - EP); **E21D 21/0053** (2016.01 - EP);  
**E21D 21/008** (2013.01 - EP)

Designated contracting state (EPC)  
AT CH DE DK ES FI FR GR IT LI PT

DOCDB simple family (publication)  
**WO 9956001 A1 19991104**; AT E252682 T1 20031115; AU 4298799 A 19991116; AU 746551 B2 20020502; CA 2330044 A1 19991104;  
CA 2330044 C 20080122; DE 69912267 D1 20031127; DE 69912267 T2 20040826; DK 1075587 T3 20040209; EP 1075587 A1 20010214;  
EP 1075587 B1 20031022; ES 2209508 T3 20040616; JP 2002533590 A 20021008; JP 4504563 B2 20100714; KR 100592808 B1 20060911;  
KR 20010072580 A 20010731; NO 20005456 D0 20001027; NO 20005456 L 20001227; NO 315135 B1 20030714; NO 315135 B3 20030714;  
PT 1075587 E 20040331; SE 510418 C2 19990525; SE 9801476 D0 19980427; SE 9801476 L 19990525

DOCDB simple family (application)  
**SE 9900626 W 19990420**; AT 99947044 T 19990420; AU 4298799 A 19990420; CA 2330044 A 19990420; DE 69912267 T 19990420;  
DK 99947044 T 19990420; EP 99947044 A 19990420; ES 99947044 T 19990420; JP 2000546131 A 19990420; KR 20007011984 A 20001027;  
NO 20005456 A 20001027; PT 99947044 T 19990420; SE 9801476 A 19980427