

Title (en)

METHOD FOR SEALING ROCKS OR BUILDING MATERIAL AND CORRESPONDING DEVICE

Title (de)

VERFAHREN ZUR ABDICHTUNG VON GESTEIN BZW. BAUMATERIAL UND VORRICHTUNG HIERZU

Title (fr)

PROCEDE D'ETANCHEITE DE ROCHES OU DE MATERIAUX DE CONSTRUCTION ET DISPOSITIF CORRESPONDANT

Publication

EP 1108115 B1 20030702 (DE)

Application

EP 99941306 A 19990823

Priority

- AT 9900208 W 19990823
- AT 146098 A 19980827

Abstract (en)

[origin: WO0012863A1] The invention relates to a method for sealing construction works, walls and hollow cavities embodied in ground, rock or mountains, notably tunnels, mine galleries, shafts, canals or caverns. According to said method a sealant material is introduced into the rock (1) under pressure via a sealed bore hole (2). Heated melted materials presenting low viscosity and high initial strength, notably polyamides or gels having polyamide-like properties, are injected under pressure into the rock (1) or building material via the bore hole (2) so that they penetrate cracks and pores in the rock (1) or building material to be sealed. After cooling, said cracks and pores are permanently and hermetically sealed.

IPC 1-7

E21B 33/13; **E21D 9/00**; **E02D 3/11**; **E04B 1/64**; **E21B 36/00**

IPC 8 full level

E02D 3/11 (2006.01); **E04B 1/64** (2006.01); **E21B 33/13** (2006.01); **E21B 36/00** (2006.01); **E21D 9/00** (2006.01)

CPC (source: EP)

E02D 3/11 (2013.01); **E04B 1/648** (2013.01); **E21B 33/13** (2013.01); **E21B 36/00** (2013.01); **E21D 9/001** (2013.01)

Cited by

DE102014016278A1; DE102014016278B4; EP2907968A1; US9503938B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0012863 A1 20000309; AU 5496799 A 20000321; DE 59906198 D1 20030807; EP 1108115 A1 20010620; EP 1108115 B1 20030702

DOCDB simple family (application)

AT 9900208 W 19990823; AU 5496799 A 19990823; DE 59906198 T 19990823; EP 99941306 A 19990823