

Title (en)  
MOULTEN BATH DRILLING METHOD

Title (de)  
METALLSCHMELZE-BOHRVERFAHREN

Title (fr)  
PROCEDE DE FORAGE FAISANT APPEL A UN METAL EN FUSION

Publication  
**EP 1157187 B1 20051012 (DE)**

Application  
**EP 00905039 A 20000209**

Priority  
• DE 19909836 A 19990305  
• EP 0001015 W 20000209

Abstract (en)  
[origin: US6591920B1] A fusion drilling process and device for the placement of dimensionally accurate borings, particularly those of large diameter, in rock, in which the waste melt is pressed into the surrounding rock, which is cracked due to the effect of temperature and pressure, and in which a borehole lining is produced by solidifying melting during boring, with a melt containing metal supplied through pipeline elements as a boring medium to the base of the borehole to be removed through melting. For this purpose a melt made of magnetic metal is preferably used.

IPC 1-7  
**E21B 7/14**

IPC 8 full level  
**E21B 7/15** (2006.01); **E21B 4/14** (2006.01)

CPC (source: EP US)  
**E21B 4/14** (2013.01 - EP US)

Cited by  
DE102008049943A1; DE102006013836A1; DE102006021330A1; CN102203373A; WO2007131788A1; DE102012020439A1; WO2010037518A3

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)  
**US 6591920 B1 20030715**; AT E306606 T1 20051015; AU 2670900 A 20000928; BR 0008734 A 20020102; BR 0008734 B1 20090505; CA 2364895 A1 20000914; CA 2364895 C 20080722; CN 1333150 C 20070822; CN 1342242 A 20020327; DE 19909836 A1 20000907; DE 50011335 D1 20051117; DK 1157187 T3 20060227; EP 1157187 A1 20011128; EP 1157187 B1 20051012; ES 2251356 T3 20060501; JP 2002538344 A 20021112; JP 4430242 B2 20100310; MX PA01008905 A 20021023; RU 2001126935 A 20030720; RU 2282704 C2 20060827; WO 0053883 A1 20000914

DOCDB simple family (application)  
**US 91448501 A 20010827**; AT 00905039 T 20000209; AU 2670900 A 20000209; BR 0008734 A 20000209; CA 2364895 A 20000209; CN 00804414 A 20000209; DE 19909836 A 19990305; DE 50011335 T 20000209; DK 00905039 T 20000209; EP 0001015 W 20000209; EP 00905039 A 20000209; ES 00905039 T 20000209; JP 2000603490 A 20000209; MX PA01008905 A 20000209; RU 2001126935 A 20000209