

Title (en)

METHOD FOR CARRYING OUT THE EROSION ENLARGEMENT OF TRANSITION RADII OF INTERCONNECTED LIQUID CRYSTAL CHANNELS, ESPECIALLY FOR ROUNDING THE SHARP-EDGED BORING INTERSECTIONS IN INJECTION SYSTEMS OF INTERNAL COMBUSTION ENGINES

Title (de)

VERFAHREN ZUR EROSIVEN VERGRÖßERUNG VON ÜBERGANGSRADIEN MITEINANDER VERBUNDENER FLÜSSIGKRISTALLKANÄLE, INSBESONDERE ZUM RUNDEN SCHARFKANTIGER BOHRUNGSVERSCHNEIDUNGEN IN EINSPRITZLAGEN VON BRENNKRAFTMACHINEN

Title (fr)

PROCEDE D'AUGMENTATION PAR EROSION DE RAYONS DE TRANSITION DE CANAUX A CIRCULATION DE CRISTAUX LIQUIDES INTERCONNECTES, NOTAMMENT POUR ARRONDIR DES INTERSECTIONS D'ALESAGES A ARETES VIVES DANS DES SYSTEMES D'INJECTION DE MOTEURS A COMBUSTION INTERNE

Publication

**EP 1123176 A1 20010816 (DE)**

Application

**EP 00967517 A 20000812**

Priority

- DE 0002729 W 20000812
- DE 19940291 A 19990825

Abstract (en)

[origin: DE19940291A1] The invention relates to a method for carrying out the erosive enlargement of transition radii of interconnected fluid channels (11, 12) during which unbonded flowable carrying material containing abrasive grains is forced through the transition point (13, 14, 15) of the fluid channels (11, 12). A low-viscous liquid is used as a carrying material and is mixed with abrasive grains. The liquid is pumped with a high velocity and under a high pressure through the interconnected fluid channels (11, 12) in such a way that the intermixture of fluid/abrasive grains is maintained using fluid mechanics.

IPC 1-7

**B24B 31/116**

IPC 8 full level

**B24B 31/116** (2006.01)

CPC (source: EP)

**B24B 31/116** (2013.01)

Citation (search report)

See references of WO 0114099A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**DE 19940291 A1 20010301**; EP 1123176 A1 20010816; WO 0114099 A1 20010301

DOCDB simple family (application)

**DE 19940291 A 19990825**; DE 0002729 W 20000812; EP 00967517 A 20000812