

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

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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.

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