

Title (en)

METHOD FOR BEAD-BLASTING PROCESSING AND DEVICE FOR CARRYING OUT SAID METHOD

Title (de)

VERFAHREN ZUR KUGELSTRAHLENVERARBEITUNG UND VORRICHTUNG ZUR DURCHFÜHRUNG DIESES VERFAHRENS

Title (fr)

PROCEDE DE GRENAILLAGE ET APPAREIL DE MISE EN OEUVRE DE CE PROCEDE

Publication

EP 1652621 B1 20081231 (DE)

Application

EP 04733217 A 20040514

Priority

- RU 2004000185 W 20040514
- RU 2003114112 A 20030515

Abstract (en)

[origin: WO2004101224A1] The invention relates to gas-abrasive processing and can be used for cleaning building structures and technological equipment with the aid of a two-component jet. Said jet is formed by acoustical action, oscillation of a material socket and by increasing a pressure difference at gas input and the output thereof. The inventive method consists in accelerating abrasive particles by an accelerator in a channel whose length ranges from 30 to 120 diameters thereof and in directing said particles at an angle of 15-45° with respect to a processed surface at a distance from the nozzle ranging from 35 to 95 diameters. A desired ratio between dispersed and dispersing media is maintained with the aid of a self-adjusting pneumatic system by increasing oscillation and reducing gas-flow rate in the jet supplied to the material socket. The inventive device for carrying out said method for bead-blasting processing comprises a nozzle, a reservoir provided with a dosing unit which are connected to each other by a transport pipe and to a pressure gas source by means of a gas conduit. Said nozzle is embodied in the form of a channel whose length ranges from 30 to 120 diameters thereof. Said dosing unit comprises a wideband acoustical oscillator, a multi-circuit vibration exciter provided with an ejector, an activator and a centrifugal moisture separator.

IPC 8 full level

B24C 1/00 (2006.01); **B24C 3/02** (2006.01); **B24C 5/08** (2006.01); **B24C 7/00** (2006.01)

CPC (source: EP)

B24C 5/08 (2013.01); **B24C 7/0069** (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1652621 A1 20060503; **EP 1652621 A4 20070328**; **EP 1652621 B1 20081231**; AT E419092 T1 20090115; DE 502004008784 D1 20090212; RU 2248871 C2 20050327; WO 2004101224 A1 20041125; WO 2004101224 A8 20060309

DOCDB simple family (application)

EP 04733217 A 20040514; AT 04733217 T 20040514; DE 502004008784 T 20040514; RU 2003114112 A 20030515; RU 2004000185 W 20040514