

Title (en)

Cold spray apparatus and method with modulated gasstream

Title (de)

Kaltspritzanlage und Kaltspritzverfahren mit moduliertem Gasstrom

Title (fr)

Appareil et procédé de pulvérisation à froid avec écoulement gazeux module

Publication

EP 1806429 B1 20080709 (DE)

Application

EP 06000403 A 20060110

Priority

EP 06000403 A 20060110

Abstract (en)

[origin: EP1806429A1] The cold gas spray apparatus (1) has a high pressure gas generator (22) for the production of a high pressure gases and a nozzle (8) from which a cold gas particle stream (7) is emitted. An influencing medium (25,26,29,32,35,36) is provided. The cold gas particle stream is guided for variable modification of the characteristics temperature, pressure, particle density, particle material and velocity. A property of the cold gas particle stream is periodically modifiable by influencing medium. An independent claim is also included for a cold gas spraying method by the cold gas spray apparatus.

IPC 8 full level

C23C 24/04 (2006.01); **B05B 7/22** (2006.01)

CPC (source: EP US)

B05B 1/083 (2013.01 - EP US); **B05B 7/1486** (2013.01 - EP US); **B05B 7/1626** (2013.01 - EP US); **C23C 24/04** (2013.01 - EP US)

Cited by

EP2206804A1; EP2564980A3; DE102008058142A1; CN103521404A; DE102008058141A1; EP3789516A1; CN114375350A; US11898986B2; WO2011036045A1; WO2011057612A1; WO2010003396A1; DE102008057162A1; WO2010054643A1; US11935662B2; US8268237B2; US9040116B2; WO2019180190A1; WO2021047855A1; EP2298962B1; DE102008057159A1; US8544769B2; US11662300B2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 1806429 A1 20070711; **EP 1806429 B1 20080709**; AT E400674 T1 20080715; DE 502006001063 D1 20080821; RU 2007100423 A 20080810; RU 2426602 C2 20110820; US 2007187525 A1 20070816; US 7631816 B2 20091215

DOCDB simple family (application)

EP 06000403 A 20060110; AT 06000403 T 20060110; DE 502006001063 T 20060110; RU 2007100423 A 20070109; US 65173007 A 20070110