Title (en)
DEVICE AND METHOD FOR CLEANING, ACTIVATING OR PRE-TREATING WORKPIECES BY BLASTING CARBON DIOXIDE SNOW

Title (de)
VORRICHTUNG UND VERFAHREN ZUM REINIGEN, AKTIVIEREN ODER VORBEHANDELN VON WERKSTÜCKEN MITTELS KOHLENDIOXIDSCHNEE-STRAHLEN

Title (fr)
DISPOSITIF ET PROCEDE POUR NETTOYER, ACTIVER OU PRETRAITER DES PIECES PAR PROJECTION DE NEIGE CARBONIQUE

Publication
EP 1843874 B1 20130227 (DE)

Application
EP 05822749 A 20051128

Priority
• EP 2005012866 W 20051128
• DE 102005005638 A 20050205

Abstract (en)
[origin: DE102005005638B3] Method for cleaning, activating or treating workpieces using carbon dioxide snow streams comprises adding a carbon dioxide mixture via a nozzle opening (7) of a mixing chamber (1) into which a central gas stream (2) made from carrier gas, metering to the gas stream radially from outside, mixing, accelerating the mixed gas in an outlet nozzle (14) and passing onto the workpiece. An independent claim is also included for a device for carrying out the above method. Preferred Features: The gas stream is adjusted to a temperature of 10-40[deg] C on entering the mixing chamber. The gas stream is displaced before entering the mixing chamber. The carbon dioxide mixture consists of carbon dioxide gas and carbon dioxide particles. The gas stream consists of water droplets.

IPC 8 full level
B24C 5/04 (2006.01); **B24C 1/00** (2006.01); **C01B 32/55** (2017.01)

CPC (source: EP US)
B24C 1/003 (2013.01 - EP US); **B24C 5/04** (2013.01 - EP US)

Cited by
AT13392U1; EP2420353A1; WO2012022735A1; US9975216B2; US11358183B2

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)
DE 102005005638 B3 20060209; CA 2597005 A1 20060810; CA 2597005 C 20130507; CN 101124065 A 20080213; CN 101124065 B 20120104; EP 1843874 A1 20071017; EP 1843874 B1 20130227; ES 2409161 T3 20130625; JP 2008529760 A 20080807; JP 4939439 B2 20120523; US 2008092923 A1 20080424; US 7967664 B2 20110628; WO 2006081856 A1 20060810

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