

Title (en)

DEVICE AND METHOD FOR PARTICLE BLASTING BY MEANS OF FROZEN GAS PARTICLES

Title (de)

VORRICHTUNG UND VERFAHREN ZUM PARTIKELSTRAHLEN MITTELS GEFRORENER GASPARTIKEL

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR LA PROJECTION DE PARTICULES AU MOYEN DE PARTICULES DE GAZ CONGELÉES

Publication

EP 2961569 A1 20160106 (DE)

Application

EP 14713389 A 20140225

Priority

- DE 102013003158 A 20130226
- EP 2014053662 W 20140225

Abstract (en)

[origin: WO2014131771A1] The invention relates to a particle blasting device (11, 11') and a method for generating a mixed jet composed of frozen particles, in particular CO₂ particles, and a carrier gas and for pressure blasting by means of the mixed jet composed of frozen gas particles and the carrier gas. The particle blasting device (11, 11') has a flow duct (3), an expansion space (2), a rotatable agglomeration wheel (6), a connecting duct (12) between the expansion space (2) and the flow duct (3), and an outlet (8). The flow duct (3) has an inlet (10) for introducing a carrier gas. The expansion space (2) serves to generate agglomerated frozen gas particles from a liquefied gas and has an inlet (4) for introducing the liquefied gas. The rotatable agglomeration wheel (6) serves to agglomerate gas particles and is connected downstream of the expansion space (2) and arranged between the expansion space (2) and the flow duct (3). The expansion space (2) is connected to the flow duct (3) via the connecting duct (12). The outlet (8) is arranged at a distal end (13) of the flow duct (3) and configured to accelerate a mixed jet comprising the gas particles and the carrier gas.

IPC 8 full level

B24C 1/00 (2006.01); **B24C 11/00** (2006.01)

CPC (source: EP)

B24C 1/003 (2013.01); **B24C 11/005** (2013.01)

Citation (search report)

See references of WO 2014131771A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2014131771 A1 20140904; EP 2961569 A1 20160106

DOCDB simple family (application)

EP 2014053662 W 20140225; EP 14713389 A 20140225