

Title (en)

DEVICE AND METHOD FOR PARTICLE BLASTING WITH FROZEN GAS PARTICLES

Title (de)

VORRICHTUNG UND VERFAHREN FÜR PARTIKELSTRAHLEN MIT GEFRORENEN PARTIKELN

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR LE DÉCAPAGE PAR PROJECTION DE PARTICULES AVEC DES PARTICULES DE GAZ CONGELÉ

Publication

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Application

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Abstract (en)

[origin: WO2012089359A1] The invention relates to a method for generating a mixed jet including frozen particles, in particular CO₂ particles and a carrier gas comprising the steps: introducing a liquefied gas into an expansion cavity for generating a flow of agglomerated frozen particles from the liquefied gas; supplying the flow of agglomerated particles and a carrier gas flow to an acceleration nozzle for generating and accelerating a mixed gas jet including the frozen particles and the carrier gas. The following method alternatives are proposed to prevent particle agglomerations: lowering the pressure dew point, heating a wall of the expansion cavity and/or of the acceleration nozzle and/or introducing an additional gas flow in the form of an additional gas for increasing and/or controlling the flow velocity in the interior of the expansion cavity.

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