

Title (en)

ABRASIVE BLASTING METHOD USING AIR UNDER PRESSURE

Publication

EP 0069874 A3 19830413 (DE)

Application

EP 82105335 A 19820618

Priority

DE 3127035 A 19810709

Abstract (en)

[origin: US4802312A] For sand blasting a stream of a suspension of a carrier gas and solid particles under superatmospheric pressure is restricted so that it is accelerated, and a liquid-carrying additive gas is mixed with the stream to moisten the particles. The additive gas is introduced into the stream at a pressure greater than the pressure of the stream at the location by between 1.5 and 2.5 times. Normally the additive-gas pressure is about twice the carrier-gas pressure, that is the additive gas is normally introduced at a pressure of between about 10 bar and 30 bar. This high-pressure introduction ensures that the additive gas enters well into the carrier-gas stream so that the liquid carried by the additive gas contacts and wets the solids carried by the carrier gas without just passing through it and wetting the inside of the sand-blast mix nozzle. The additive gas is introduced into the stream in a unit of time at a rate sufficient to introduce into the stream a quantity of the liquid equal to between about one-twentieth to one-thirtieth, preferably one-twenty-fifth, the mass of the particles passing the location during the unit of time.

IPC 1-7

B24C 1/00

IPC 8 full level

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CPC (source: EP KR US)

B05D 1/00 (2013.01 - KR); **B24C 7/0046** (2013.01 - EP US); **B24C 7/0084** (2013.01 - EP US); **B24C 11/005** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 0069874 A2 19830119; EP 0069874 A3 19830413; EP 0069874 B1 19850320; AT E12196 T1 19850415; DE 3127035 A1 19830127; DE 3262640 D1 19850425; GR 76183 B 19840803; JP S5871065 A 19830427; KR 840000284 A 19840218; PT 75183 A 19820801; PT 75183 B 19840528; US 4802312 A 19890207

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