

Title (en)

HYDROGEN BASED COLD SPRAY NOZZLE AND METHOD

Title (de)

WASSERSTOFFBASIERTE KALTSPRÜHDÜSE UND VERFAHREN

Title (fr)

BUSE ET PROCÉDÉ DE PULVÉRISATION À FROID À BASE D'HYDROGÈNE

Publication

EP 3431630 A1 20190123 (EN)

Application

EP 18184451 A 20180719

Priority

US 201715653582 A 20170719

Abstract (en)

A method for cold spray deposition of a material on a Substrate (100), comprising the steps of entraining a metal powder material in a stream of accelerant gas (104) comprising hydrogen; forming a flow of shield gas (106) around the stream of accelerant gas (104); and impacting the substrate (100) with the stream of accelerant gas (104) whereby the metal powder material is deposited on the substrate (100).

IPC 8 full level

C23C 24/04 (2006.01)

CPC (source: EP US)

C23C 24/04 (2013.01 - EP US)

Citation (search report)

[X] WO 02085532 A1 20021031 - INNOVATIVE TECHNOLOGY INC [US]

Cited by

US11662300B2; US11898986B2; US11935662B2

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)

EP 3431630 A1 20190123; US 2019024242 A1 20190124

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