

Title (en)

METHOD FOR PRODUCING A COATING THROUGH COLD GAS SPRAYING

Title (de)

VERFAHREN ZUM ERZEUGEN EINER SCHICHT DURCH KALTGASSPRITZEN

Title (fr)

PROCÉDÉ POUR FORMER UNE COUCHE PAR PROJECTION DYNAMIQUE À FROID

Publication

**EP 2257656 A1 20101208 (DE)**

Application

**EP 09725646 A 20090325**

Priority

- EP 2009053504 W 20090325
- DE 102008016969 A 20080328

Abstract (en)

[origin: US2011027496A1] The embodiments include a method for producing a coating through cold gas spraying. In the process, particles according to the embodiments are used which contain a photocatalytic material. In order to improve the effect of this photocatalytic material (such as titanium dioxide), a reactive gas can be added to the cold gas stream, the reactive gas being activated by a radiation source not shown, for example by UV light, on the surface of the coating that forms. This makes it possible to, for example, dose titanium dioxide with nitrogen. This allows the production of in situ layers having advantageously high catalytic effectiveness. The use of cold gas spraying has the additional advantage in that the coating can be designed to contain pores that enlarge the surface available for catalysis.

IPC 8 full level

**C23C 24/04** (2006.01)

CPC (source: EP US)

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Cited by

EP2620525A1; DE102012001361A1; WO2013110441A1

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