Title (en)

Method of manufacturing a photocatalytic active layer

Title (de)

Verfahren zur Herstellung einer photokatalytisch aktiven Schicht

Title (fr)

Méthode de fabrication d'une couche photocatalytique

Publication

EP 1785508 A2 20070516 (DE)

Application

EP 06022877 A 20061102

Priority

DE 102005053263 A 20051108

Abstract (en)

In a process to manufacture metallic objects e.g. foil, sheet metal components or formed components bearing a photo-catalytic active surface, the active material is applied as a cold gas spray incorporating a ceramic oxide and a metallic powder. The cold gas incorporates titanium dioxide powder e.g. Atanas. The individual ceramic oxide particles are encased within a metal or metal alloy representing 30-60% Vol. The metal surface has a photo-catalytic particle coating represents 30-80% of the surface area. The outer layer is subject to further mechanical or chemical treatment.

Abstract (de)

Die Erfindung betrifft ein Verfahren zur Herstellung von metallischen Gegenständen, wie Folien, Blechen oder Formteilen, mit photokatalytisch aktiver Oberfläche durch das Auf- oder Einbringen von photokatalytisch aktivem Material mittels Kaltgasspritztechnik. Zur Erhöhung der Lebensdauer der Schicht enthält der Spritzwerkstoff Oxidkeramik und ein metallisches Pulver.

IPC 8 full level

C23C 24/08 (2006.01)

CPC (source: EP US)

C23C 24/04 (2013.01 - EP US)

Cited by

WO2009118335A1; EP2620525A1; DE102012001361A1; WO2013110441A1; US8241702B2

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DOCDB simple family (publication)

EP 1785508 A2 20070516; **EP 1785508 A3 20070822**; **EP 1785508 B1 20090408**; AT E428007 T1 20090415; DE 102005053263 A1 20070510; DE 502006003370 D1 20090520; US 2007148363 A1 20070628

DOCDB simple family (application)

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