

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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