

Title (en)
PHOTOCATALYTICALLY ACTIVE COATING OF A SUBSTRATE

Title (de)
PHOTOKATALYTISCH AKTIVE BESCHICHTUNG EINES SUBSTRATS

Title (fr)
REKETEMENT PHOTOCATALYTIQUEMENT ACTIF POUR UN SUBSTRAT

Publication
EP 1646448 A1 20060419 (DE)

Application
EP 04766238 A 20040715

Priority

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Abstract (en)
[origin: EP1498176A1] A building facade has an active photocatalytic coating with a first layer on a substrate incorporating a metal oxide, e.g. SiO₂, ZrO₂, Al₂O₃, Nb₂O₅, Ta₂O₅ or CaO, and a second layer of TiO₂ particles. The first layer is generally free of TiO₂ and contains at least 5 wt.% ZrO₂. The first layer contains 50-95 wt.% SiO₂ and 5-50 wt.% ZrO₂, and a further metal oxide. The substrate is a polymer and/or a metal. The polymer may be from the group PVC, PP, PE, PMMA, PS, PC, SBR being a homo-polymer, co-polymer or polymer blend. An independent claim is included for the production of the above active photocatalytic coating material.

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