Title (en)

COMPONENT WITH A SELF-HEALING SURFACE LAYER, SELF-HEALING ENAMEL OR COATING POWDER WITH SELF-HEALING CHARACTERISTICS

Title (de)

BAUTEIL MIT EINER SELBSTHEILENDEN OBERFLÄCHENSCHICHT, SELBSTHEILENDER LACK BZW. BESCHICHTUNGSPULVER MIT SELBSTHEILENDEN EIGENSCHAFTEN

Title (fr)

COMPOSANT POURVU D'UNE COUCHE SUPERFICIELLE AUTOCICATRISANTE, VERNIS AUTOCICATRISANT OU POUDRE DE REVÊTEMENT PRÉSENTANT DES PROPRIÉTÉS AUTOCICATRISANTES

Publication

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Application

EP 09769225 A 20090623

Priority

- EP 2009057769 W 20090623
- DE 102008030189 A 20080625

Abstract (en)

[origin: CA2729439A1] The invention relates to a component (19) with a self-healing surface layer (20) or a self-healing enamel (21) or a coating powder. According to the invention, the self-healing is guaranteed through a reactive substance (15) that is encased inside of sheathed particles (12). Damage (21) to the enamel layer leads to the destruction of the sheathing (14), preferably under the influence of a catalytic material (16), so that the encased fluid enamel (15) can escape. Under the effect of UV light, the fluid enamel cures and closes the resultant crack (21).

IPC 8 full level

C09D 7/12 (2006.01); **B29C 73/16** (2006.01); **C09D 5/03** (2006.01)

CPC (source: EP US)

B29C 73/22 (2013.01 - EP US); **C09D 5/033** (2013.01 - EP US); **C09D 7/40** (2017.12 - EP US); B29C 2035/0827 (2013.01 - EP US); C08K 9/10 (2013.01 - EP US); Y10T 428/249994 (2015.04 - EP US); Y10T 428/25 (2015.01 - EP US); Y10T 428/2991 (2015.01 - EP US); Y10T 428/31504 (2015.04 - EP US)

Citation (search report)

See references of WO 2009156376A1

Citation (examination)

ANONYMOUS: "Biokompatibilität - Wikipedia", 11 September 2019 (2019-09-11), XP055620901, Retrieved from the Internet <URL:https://de.wikipedia.org/wiki/Biokompatibilität> [retrieved on 20190911]

Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

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DOCDB simple family (application)

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