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(54) Title: ANTI-GRAFFITI COATINGS

(57) Abstract: Coatings, comprising a resin and a hardener, wherein the resin is obtained by reacting nano-particle sol(s) of organofunctional silanol(s) exhibiting reactivity towards amino, amide, nitrile or/and isocyanate groups, with alkyl siloxane(s) and optionally organic binding agents, both exhibiting reactivity towards amino, amide, nitrile or/and isocyanate groups; and wherein the hardener comprises a component A comprising siloxane(s) having amino, amido, isocyanate and/or nitrilo groups; and/or comprising polyisocyanate; as well as a component B comprising one or more of an α,ω -amino functional, α,ω -amido-functional, α,ω -isocyanate-functional and α,ω -nitrilo-functional polysiloxane, is provided. The coatings may either be obtained as a one component or as a two component coating which are useful as permanent anti-graffiti coatings.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER INV. C04B41/49 C09D183/06 C09D183/08 C08L83/08		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) C04B C09D C08L		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/236347 A1 (FURUYA ET AL) 25 December 2003 (2003-12-25) *page 1 [0006], synthesis example 2*	1-10
X	US 5 385 955 A (TARSHIANI) 31 January 1995 (1995-01-31) example 2	1-9
X	EP 0 305 838 A (HENKEL) 8 March 1989 (1989-03-08) example 1	1-9
X	EP 1 160 372 A (DOW CORNING TORAY) 5 December 2001 (2001-12-05) claim 1	11-13, 15-17
A	EP 0 628 605 A (THREE BOND) 14 December 1994 (1994-12-14) page 4, lines 1-5; claim 1	11-17
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents :		
A document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed		*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family
Date of the actual completion of the international search <p align="center">25 August 2006</p>		Date of mailing of the international search report <p align="center">22/09/2006</p>
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer <p align="center">Lentz, J.C.</p>

INTERNATIONAL SEARCH REPORT

International application No.
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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-10

Anti-graffiti resin, process for the manufacture and use of the resin. The resin comprises (i) nano-particle sol comprising organofunctional silanol(s), (ii) optionally binder and (iii) alkyl siloxane.

2. claims: 11-18

Anti-graffiti hardener, the manufacture and use thereof. The hardener comprises a mixture of (i) a binder comprising certain functional siloxanes and/or polyisocyanate and (ii) certain siloxanes with alpha,omega functionalities.

3. claims: 19-31

An anti-graffiti coating system comprising a resin according to claims 8 or 9, and a binder according to claims 16 or 17, the manufacture and use of said coating system.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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