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7 May 2009

(54) Title: METHODS FOR CONTROLLING COATING GLOSS

(57) Abstract: A method including applying a coating composition on a substrate to form a coating, wherein the coating has a first surface roughness; transferring a pattern to the coating to form a patterned coating, wherein the patterned coating has a second surface roughness different from the first surface roughness; and curing the patterned coating to form a cured coating with a desired level of gloss.

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INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER
INV. B05D3/06 B05D5/02
ADD. B44F1/02 B44F9/12

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)
B05D B44F D06N

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2007/031640 A1 (TIAN DONG [US]) 8 February 2007 (2007-02-08) claims 1,4,10 figures 25,32,33 abstract paragraphs [0001] - [0004], [0007] - [0009], [0023], [0027] - [0033]	1-11, 13-27
X	WO 01/53387 A (CONGOLEUM CORP [US]) 26 July 2001 (2001-07-26) claim 20 abstract examples 1,2 page 1, lines 9-12 page 3, line 24 - page 4, line 6 page 20, lines 10-29 page 21, lines 9-13	1-6,10, 12

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[X] Further documents are listed in the continuation of Box C.

[X] 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	Date of mailing of the international search report
2 March 2009	06/03/2009

Name and mailing address of the ISA/	Authorized officer
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INTERNATIONAL SEARCH REPORT

International application No
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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 410 888 A (DU PONT [US]) 21 April 2004 (2004-04-21) claims 1,2,4,5,9 abstract paragraphs [0008], [0009], [0015], [0029], [0044] - [0046]	28,29
X,E	US 2008/268203 A1 (BLENKHORN GARY P [US]) 30 October 2008 (2008-10-30) claims 1,4 abstract paragraphs [0002], [0013], [0014], [0044]	28,29
A	EP 1 690 602 A (FRITZ EGGER GMBH & CO [AT]) 16 August 2006 (2006-08-16) the whole document	1-4,10, 13,21

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2008/008541

Box No. 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 No. 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 allsearchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search reportcovers 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 and, where applicable, the payment of a protest fee.

☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.

☐ 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: 1-12

   A method comprising the steps: *Apply a coating to a substrate; *Transfer a pattern to the coating; *Cure the patterned coating.

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2. claims: 13-20

   A method comprising the steps: *Apply a coating to a substrate; *Partially cure the coating;*Transfer a pattern to the coating; *Fully cure the patterned coating.

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3. claims: 21-27

   A method comprising the steps: *Apply a thermosetting coating to a substrate; *Partially UV cure the coating to form a B-stage coating;*Transfer a pattern to the B-stage coating; *Fully UV cure the patterned B-stage coating.

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4. claims: 28,29

   A method comprising the steps: *Apply a thermosetting coating to a substrate; *Apply a textured polymeric film on the coating *Partially UV cure the coating through the film to form a B-stage coating; *Transfer a pattern to the B-stage coating; *Fully UV cure the patterned B-stage coating.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
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