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(54) Title: USE OF NANOPARTICULATE ORGANIC PIGMENTS IN PAINTS AND COATINGS

(57) Abstract: A protective and decorative coating composition including about 2 to 10 different colorants which in combination with a resinous composition produce a desired visible coating. A majority of the colorants has a maximum haze of about 10% and exhibits an absorbance peak in the visible spectrum wherein at least about 50% of the total absorbance in the visible spectrum occurs at wavelengths within about 50 nm of the wavelength of the peak absorbance.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/19201

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C09D7/00 C09D7/12 B05D5/00 C09D17/00

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)

IPC 7 C09D B05D

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 692 481 A (KELLY RENEE J) 8 September 1987 (1987-09-08) abstract	1
A	EP 0 846 500 A (TOTAL CAR FRANCHISING CORP D B) 10 June 1998 (1998-06-10) abstract	1
A	DE 196 52 885 A (BASF COATINGS AG) 25 June 1998 (1998-06-25) abstract	10
A	EP 0 154 739 A (MARTIN R. W.) 18 September 1985 (1985-09-18) abstract	32

Further documents are listed in the continuation of box C.

Patent family members are listed in 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

21 January 2003

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 02/19201

Box I Observations where certain claims were found unsearchable (Continuation of item 1 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 II Observations where unity of invention is lacking (Continuation of item 2 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: 1-31

Use of colorants having low haze and narrow absorbance peak in combination with a resinous binder in coating compositions to produce coatings of defined color.

2. Claims: 32-45

Flake-like assemblage comprising scattering members encapsulated in a resinous polymer

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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