

REVISED VERSION

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
22 January 2009 (22.01.2009)

PCT

(10) International Publication Number
WO 2009/011694 A9

(51) International Patent Classification:

B32B 7/00 (2006.01) **B32B 21/08** (2006.01)
B32B 21/00 (2006.01) **B32B 23/04** (2006.01)
B32B 21/04 (2006.01) **B32B 23/08** (2006.01)

(21) International Application Number:

PCT/US2007/073524

(22) International Filing Date: 13 July 2007 (13.07.2007)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): **IDEA PAINT INC.** [US/US]; 22 Goddard Circle, Brookline, Massachusetts 02445 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **GOSCHA, John** [US/US]; 22 Goddard Circle, Brookline, Massachusetts 02445 (US).

(74) Agent: **FRENCH, Timothy A.**; Fish & Richardson P.C., P.O. Box 1022, Minneapolis, Minnesota 55440-1022 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH,

CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the revised international search report: 22 May 2009

(15) Information about Correction:
see Notice of 22 May 2009

(54) Title: COATINGS HAVING WRITABLE-ERASABLE SURFACES AND METHODS OF MAKING THE SAME

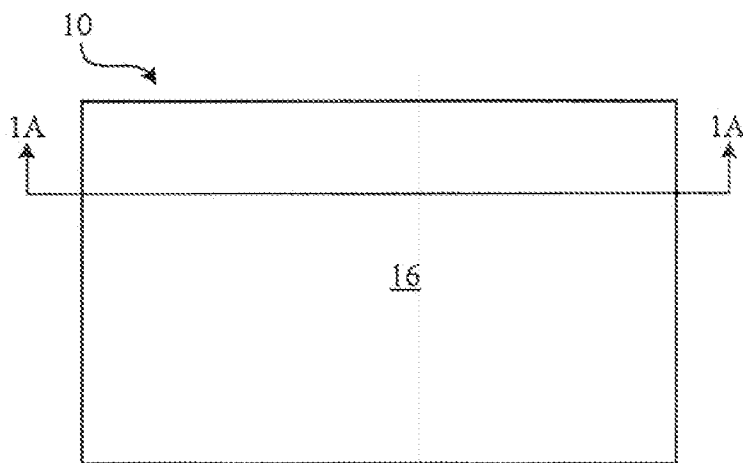


FIG. 1

(57) Abstract: Coatings having writable-erasable surfaces are provided. The coatings have many desirable attributes. For example, the coatings cure rapidly under ambient conditions, have low VOC emissions during application and cure, and have reduced tendency to form ghost images, even after prolonged use.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/73524

A. CLASSIFICATION OF SUBJECT MATTER

IPC: B32B 7/00(2006.01),21/00(2006.01),21/04(2006.01),21/08(2006.01),23/04(2006.01),23/08(2006.01)

USPC: 428/141,421,480,195.1,524;503/201;427/355,372.2,384,385.5,394,395,396,397

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)

U.S. : 428/141,421,480,195.1,524; 503/201; 427/355,372.2,384,385.5,394,395,396,397

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 practicable, search terms used)
EAST (writeable, erasable, dry erase, ambient, curable, crosslinking, aqueous)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,326,437 B1 (TSUDA ET AL) 04 December 2001 (04.12.2001), column 1, lines 22-37; column 6, lines 53-65; column 7, lines 11-60.	1-3, 29-33, 45-51
Y	US 2004/0077497 A1 (KORANE ET AL) 22 April 2004 (22.04.2004), paragraphs 0016, 0030, 0038.	30-33, 45-51
Y	US 6,423,418 B1 (CALLICOTT ET AL) 23 July 2002 (23.07.2002), column 2, lines 30-68; column 3, lines 42-68; column 4, lines 44-60, col. 4.	19-21
Y	US 6,541,552 B1 (TSUDA ET AL) 01 April 2003 (01.04.2003), column 1; column 10, lines 30-52; column 11, line 40 to column 12, line 20.	1-3, 29-33, 45-51
Y	US 2004/0081844 A1 (BHARTI ET AL) 29 April 2004 (29.04.2004), paragraphs 0003-0004,0089.	30-33, 45-51
Y	US 6,350,806 B1 (TSUDA ET AL) 26 February 2002 (26.02.2002), column 1, lines 33-40; column 9.	1-3, 29-33, 45-51
A	US 6,265,074 B1 (SHAH ET AL) 24 July 2001 (24.07.2001), column 1.	1-3, 19-21, 29-33



Further documents are listed in the continuation of Box C.



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	"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
"E" earlier application or patent published on or after the international filing date	"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
"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)	"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
"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	"&" document member of the same patent family

Date of the actual completion of the international search

04 August 2008 (04.08.2008)

Date of mailing of the international search report

01 APR 2009

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (571) 273-3201

Authorized officer

Vivian Chen

Telephone No. 571-272-1700

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/73524

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.: 4-18,22-28,34-44 and 52-56
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:

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 additional fees, this Authority did not invite payment of any additional fees.
 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 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. |

INTERNATIONAL SEARCH REPORTInternational application No.
PCT/US07/73524**C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,579,966 B1 (WEINERT ET AL) 17 June 2003 (17.06.2003), column 1, lines 20-42; column 4, line 30, column 6, line 5.	19-21
A	US 4,786,558 A (SUMIYA ET AL) 22 November 1988 (22.11.1988), Abstract; column 13, lines 60-65.	49-51