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(71) Applicant (for all designated States except US): **IMATION CORP.** [US/US]; 1 Imation Place, P.O. Box 64898, St. Paul, MN 55164-0898 (US).

(72) Inventors: **LOWERY, David, C.**; P.O. Box 64898, St. Paul, MN 55164-0898 (US). **FEATHERSTONE, Gary, L.**; P.O. Box 64898, St. Paul, MN 55164-0898 (US). **BOBERG, Arne, B.**; P.O. Box 64898, Saint Paul, MN 55164-0898 (US).

(74) Agent: **LEVINSON, Eric, D.**; Imation Corp. Legal Affairs, P.O. Box 64898, St. Paul, MN 55164-0898 (US).

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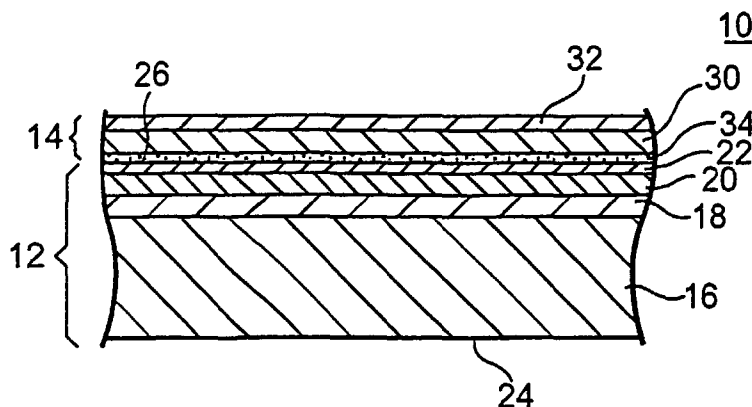
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: OPTICAL MEDIA WITH LAMINATED INKJET RECEPTOR



(57) Abstract: Aspects of the present invention relate to an inkjet printable optical recording medium for sale to consumers. The optical medium includes an optical recording media and an inkjet receptive laminate. The optical recording media includes at least a transparent base material. The inkjet receptive laminate is bonded to the optical media and provides an inkjet receptive surface. With this in mind, the inkjet receptive laminate is characterized as exhibiting a Waterfast Optical Density Loss Percent Value of not more than 10%.

In other embodiments, the Waterfast Optical Density Loss Percent Value is not less than 5%. In other embodiments, the inkjet receptive surface has a Dmin Value of not more than 0.10, a Brightness Value of at least 90%, and/or a BFR Value of not more than 16.

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INTERNATIONAL SEARCH REPORT

International application No

PCT/US2005/046854

A. CLASSIFICATION OF SUBJECT MATTER

INV. G11B7/252 G11B7/26 G11B23/38 G11B23/40 G11B7/24

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)

G11B B41F B41J B41M

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.
Y A	EP 1 022 316 A (TDK CORPORATION) 26 July 2000 (2000-07-26) paragraphs [0001], [0016], [0038], [0082]; figure 1 -----	1,2, 16-20 3,4
Y A	US 6 495 243 B1 (MALHOTRA SHADI L) 17 December 2002 (2002-12-17) column 1, line 40 - line 45 column 14, line 3 - line 6 column 14, line 40 - line 54 column 33, line 62 - line 66 column 37, line 36 - line 39 -----	1,2, 16-20 3,4
Y	EP 1 229 529 A (HEWLETT-PACKARD COMPANY) 7 August 2002 (2002-08-07) paragraphs [0021], [0051]; figures 1,2 ----- -/-	17-20



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

"E" earlier document but published on or after the international filing date

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"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

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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

Chaumeron, Bernard

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.:

1-4, 16-20

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: 1-4,16-20

Inkjet printable recording medium comprising an inkjet receptive laminate exhibiting a BFR value of not more than 8 or of not more than 30 after 72 hours exposure to 70 °C and 85 % RH and method of providing an inkjet printable optical recording medium

2. claim: 5

Inkjet printable recording medium comprising an inkjet receptive laminate exhibiting a Brightness Value of at least 90

3. claim: 6

Inkjet printable recording medium comprising an inkjet receptive laminate exhibiting a Dmin Value of not more than 0.07

4. claim: 7

Inkjet printable recording medium comprising an inkjet receptive laminate exhibiting a L* Value of greater than 95.0 at the inkjet receptive surface

5. claim: 8

Inkjet printable recording medium comprising an inkjet receptive laminate exhibiting a deltaE Value of not more than 2.0 at the inkjet receptive surface

6. claim: 9

Inkjet printable recording medium comprising an inkjet receptive laminate exhibiting a Nitrogen Adsorption Value of greater than $0.2\text{m}^2/(6.45\text{cm}^2)$

7. claim: 10

Inkjet printable recording medium comprising an inkjet receptive laminate exhibiting an Inorganic Particle Loading Value in the range 15%-75%

8. claim: 11

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Inkjet printable recording medium comprising an inkjet receptive laminate characterised as providing a printed inkjet ink drying time of less than 3 minutes

9. claim: 12

Inkjet printable recording medium comprising an inkjet receptive laminate having a flexural rigidity of not more than 400mg/ m

10. claim: 13

Inkjet printable recording medium wherein bonding of the inkjet receptive laminate to the optical recording media is characterized by a runout of an inner diameter of the inkjet receptive surface of less than 1.0 mm

11. claim: 14

Inkjet printable recording medium comprising an inkjet receptive laminate, wherein the inkjet receptive laminate includes a substrate, an inkjet receptive surface formed on one side of the substrate, and an adhesive provided on an other side of the substrate opposite the inkjet receptive surface for bonding the inkjet receptive laminate onto the optical recording medium, and further wherein upon bonding to the optical medium, the adhesive exhibits a Peel Strength Value of at least 160 grams of a 25 mm wide tape

12. claim: 15

Inkjet printable recording medium comprising an inkjet receptive laminate, wherein the inkjet printable optical recording medium is a CD-R, the optical medium comprising a base material having a thickness of less than 1.1mm.

INTERNATIONAL SEARCH REPORT

International application No

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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Information on patent family members

International application No

PCT/US2005/046854

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