Title: FABRIC SIDE-FINISHING METHOD AND PRODUCTS

Abstract: A process for forming a substrate having a desired performance finish or finishes applied thereto. The process involves applying a foam containing a selected performance finish to a selected substrate side in such a manner that the performance finish is inhibited from transpassing through the substrate to the opposed substrate side. Accordingly, the performance characteristic of the finish is exhibited only on the side of the substrate to which the finish was applied. Additionally, the process may involve applying a second foam having a second distinct performance finish to the opposed side of the substrate in such a manner that only the second side exhibits the characteristics of the second finish. Various parameters used to control transpassing of the finish through the substrate include, singularly and/or in combination, finishing bath chemistry, foam characterization, pH of the finishing bath and freezing moisture that is within the substrate.
### INTERNATIONAL SEARCH REPORT

**A. CLASSIFICATION OF SUBJECT MATTER**
- IPC: D06M23/16, D06M23/04, D06B19/00

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: D06M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database consulted during the international search (name of database and, where practical, search terms used)
- EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
</table>

**Further documents are listed in the continuation of box C.**

| X | Patent family members are listed in annex. |

- **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

**Date of the actual completion of the international search**

3 June 2005

**Date of making of the international search report**

10 July 2005

**Name and mailing address of the ISA**

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV RIJWEL TELE +31-70-340 2040, TX 31 651 epo nl, FAX +31-70-340 3016

**Authorized officer**

Goodall, C
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.:

1-8, 16-21, 26-31.

Remark on Protest

☐ The additional search fees were accompanied by the applicant’s protest.

☐ No protest accompanied the payment of additional search fees.
This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-8,16-21,26-31
   Process of providing a substrate with different finishes on each side and substrate prepared by the process

2. claims: 9-14,23-25,32-36
   Process for providing a substrate with a finish using a finishing bath that includes a transpass-limiting ingredient and substrate prepared by the process; finishing composition including a transpass-limiting ingredient

3. claims: 15,22
   Process for providing a substrate with a finish comprising the step of freezing moisture within the substrate and substrate prepared by the process
<table>
<thead>
<tr>
<th>Patent document cited in search report</th>
<th>Publication date</th>
<th>Patent family member(s)</th>
<th>Publication date</th>
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