Abstract:

A system and method of printing articles including removable concealing areas. To efficiently produce a printed article with concealed areas of high print quality, an inkjet printing process, preferably drop on demand (DOD) inkjet printing, is used to create a raised printed area. To adequately conceal printed areas, a clear doming material is applied over the printed area before concealing. The clear doming material covers or fills any raised printed areas to create a level surface for subsequent application of a concealing layer. In one embodiment, a hot foil stamping method is used to produce a scratch-off concealing layer. Upon scratching or abrading by the end consumer, the concealing layer is removed to reveal the printed area.
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.
INTERNATIONAL SEARCH REPORT

International application No. PCT/US 06/42999

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8): B42D 15/00 (2007.01)
USPC: 283/100

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(8): B42D 15/00
USPC: 283/100, 111, 901; 347/54, 95, 100, 102

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 practicable, search terms used)
WEST (PQP,B,USPT,EPAB,JPAB): article, indicia, doming layer, concealing layer, drop-on-demand, foil, label, encapsulate, lenticular lens, polyurethane;
Google Patents: doming layer; Dialog Pro: dome, label, indicia

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>
<tbody>
<tr>
<td>X</td>
<td>US 2004/0029030 A1 (MURRAY et al) 12 February 2004 (12.02.2004), para [0007], [0008], [0009], [0018], [0042], [0055], [0058], [0079], [0081], [0098], [0099], [0101], [0104], [0105], [0106], [0107], [0108]; Fig. 2.</td>
<td>1, 2, 6-28, 33-37, 39-47</td>
</tr>
<tr>
<td>Y</td>
<td>US 5,889,084 A (ROTH) 30 March 1999 (30.03.1999), abstract, col 1, In 42-60, col 2, ln 20-40.</td>
<td>3-5, 29-32</td>
</tr>
</tbody>
</table>

Further documents are listed in the continuation of Box C.

Date of the actual completion of the international search 10 April 2007 (10.04.2007)

Date of mailing of the international search report 12 JUL 2007

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: Lee W. Young

PCT Helpdesk: 571-272-300
PCTOSP: 571-272-7774

Form PCT/ISA/210 (second sheet) (April 2005)