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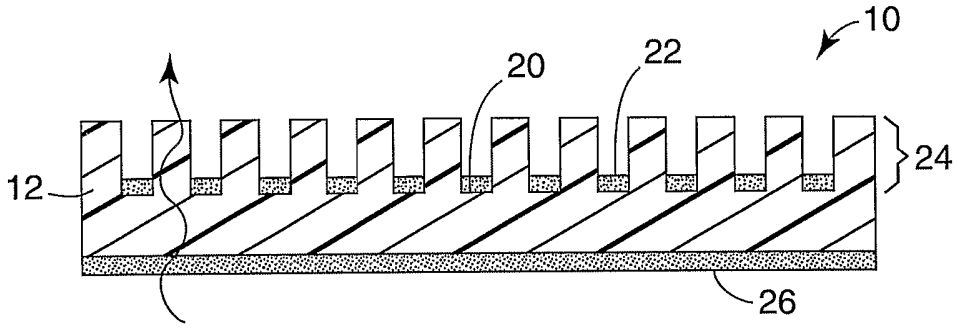
(54) Title: SUBSTRATES WITH MULTIPLE IMAGES AND METHODS OF USE



(57) Abstract: The present application is directed to a method of creating a dual appearance comprising providing a substrate. The dual appearance is further created by providing an illumination source proximate to the second major surface of the substrate. A reflective image is provided on the first major surface of the substrate opposite the illumination source. A transmitted image is provided on the second major surface of the substrate between the substrate and the illumination source. Generally, the reflective image is visible with the illumination source off and the transmitted image is visible with the illumination source on.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
INV. G09F13/12

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)
G09F

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.
X	GB 2 381 116 A (RICHARD JAMES ERNIE * GARDNER; RICHARD JAMES ERNLE * GARDNER) 23 April 2003 (2003-04-23)	1-5
Y	page 3, line 22 - page 5, line 12; figure 2	6
Y	US 2002/034608 A1 (AELING ELLEN O ET AL) 21 March 2002 (2002-03-21)	6
A	page 3, paragraph 40; figures 3,4 page 4, paragraph 56 - paragraph 58; figure 7	1-5
A	US 5 962 109 A (SCHWIETZ ET AL) 5 October 1999 (1999-10-05) cited in the application the whole document	1-6

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[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
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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 3 888 029 A (SCHUBERT ET AL) 10 June 1975 (1975-06-10) cited in the application the whole document _____	1-6

INTERNATIONAL SEARCH REPORT

nformation on patent family members

In ional application No
PCT/US2005/026643

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
GB 2381116 A	23-04-2003	WO 03034377 A2	24-04-2003
US 2002034608 A1	21-03-2002	NONE	
US 5962109 A	05-10-1999	AU 3477297 A	03-08-1998
		CN 1242856 A	26-01-2000
		DE 69720807 D1	15-05-2003
		DE 69720807 T2	11-03-2004
		EP 1016058 A1	05-07-2000
		JP 2001507821 T	12-06-2001
		WO 9830998 A1	16-07-1998
US 3888029 A	10-06-1975	NONE	