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12/380,697 3 March 2009 (03.03.2009) US(71) Applicant (for all designated States except US): **BENJAMIN MOORE & CO.** [US/US]; 101 Paragon Drive, Montvale, NJ 07645 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CHIN, Bobby** [US/US]; 31 Skyview Dr., Sparta, NJ 07871 (US). **MINCHEW, Carl** [US/US]; 30 Cobb Road, Mountain Lakes, NJ 07046 (US). **CHONG, Patrick, Tak, Fu** [US/US]; 1 Spruce Terrace, Mount Arlington, NJ 07856 (US). **CALABRIA, Anthony, Joseph** [US/US]; 10 Crestwood Road, Rockaway, NJ 07866 (US).(74) Agent: **THAN, H., T.**; The H.T. Than Law Group, 1010 Wisconsin Ave., N.W., Suite 560, Washington, DC 2007 (US).

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(54) Title: METHOD FOR MANAGING METAMERISM OF COLOR MERCHANDISE

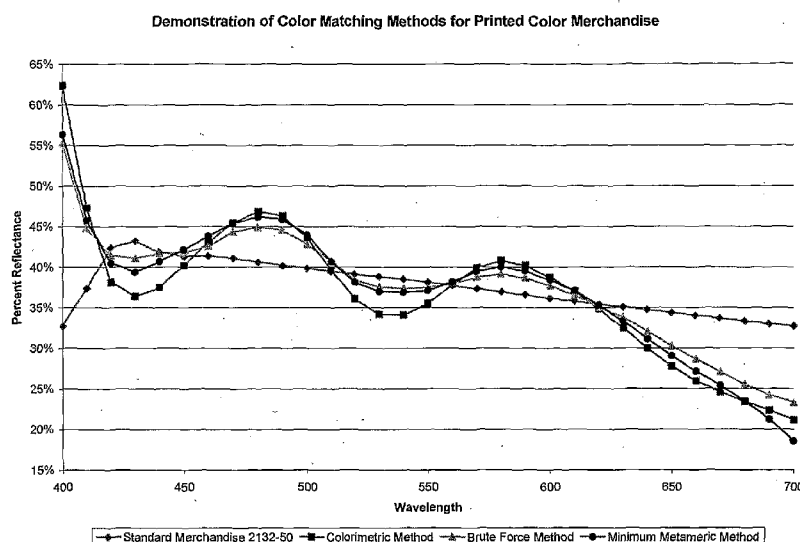


FIG. 4

(57) Abstract: The present invention relates to a method for minimizing the effects of metamerism between a set of color standards (e.g., nitrocellulose lacquers) and inkjet printed color merchandise (e.g., paint chips) under a plurality of illuminants, including a balanced illuminant that emulates lighting conditions between cool (6500 K) and warm (2856 K) color temperatures. For each color standard, one selects an ink combination that best produces color merchandise having a minimal degree of metamerism. Innovatively, a combination of instrumental and visual tests is used to evaluate color difference for a set of color standards-color merchandise pairs under a plurality of illuminants. If a color standard-color merchandise pair fails either test then the ink combination may be adjusted.



- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*
- *with information concerning request for restoration of the right of priority in respect of one or more priority claims; the decision of the receiving Office regarding the*

request for restoration is pending and will be published separately once available (Rules 26bis.3 and 48.2(j))

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB 10/00831

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G06F 15/00 (2010.01)

USPC - 358/1.9

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)

USPC: 358/1.9

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 358/1.1, 1.6, 1.9, 1.13, 1.15, 500, 504, 518; 345/589, 595; 702/1.85, 127 (text search - see terms below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PubWEST(USPT,PGPB,EPAB,JPAB); Google

Search Terms: metamerism, spectrophotometer, color, standard, reflectance, ink, match, panel, observer, cie, paint, 4200, 4600, color temperature, percent, sources, visual

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 3,601,589 A (MCCARTY) 24 August 1971 (24.08.1971), entire document especially Fig 1; col 1, lns 25-28; col 11, lns 40-48; col 12, lns 19-49	1-31
Y	US 2005/0094871 A1 (BERNS et al.) 05 May 2005 (05.05.2005), entire document especially paras [0007], [0053], [0285]	1-31
Y	US 2008/0266563 A1 (REDMAN et al.) 30 October 2008 (30.10.2008), entire document especially paras [0042], [0130]	4-5, 17-18, 22-23, 29-30
Y	ANDERSSON, Topics in color measurement, Linköping Studies in Science and Technology Licentiate Thesis 1143 [online], December 2004 (12.2004) [retrieved on 08 September 2010 (08.09.2010)]. Retrieved from the Internet:<URL: http://www.t2f.nu/t2frapp_f_164.pdf >, pg 43, paras [0001], [0004]; pg 19, para [0001]	10, 12-13, 25
Y	US 2007/0292608 A1 (RODRIGUES) 20 December 2007 (20.12.2007), entire document especially para [0057]	11-13, 20-23, 26, 28-30
Y	US 2007/0263098 A1 (QUAN et al.) 15 November 2007 (15.11.2007), entire document especially para [0003]	2, 6
Y	US 2008/0259600 A1 (POHLERT) 23 October 2008 (23.10.2008), entire document especially para [0095]	2, 6
A	US 6,741,260 B2 (HIRAYAMA et al.) 25 May 2004 (25 May 2004), entire document	1-31

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Authorized officer:

Lee W. Young

PCT Helpdesk: 571-272-4300
PCT OSP: 571-272-7774