Title: DIGITAL COLOR FIDELITY

Abstract: A system and method manipulates and corrects the color of digital images. The invention addresses, inter alia, problem of the differences in chromaticity of two systems by characterizing the chromaticity of the hues of a color model to minimize the perceived color difference between a digital image and its real world counterpart.
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 05/28255

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**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(8) - H04N 01/060

USPC - 358/1.9

According to International Patent Classification (IPC) or to both national classification and IPC

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**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

USPC: 358/1.9; 3.26, 504, 518, 521, 534; 348/222.1

IPC (8): H04N001/62; H04N009/68

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

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

USPTO SEARCH PORTAL; MICROPAT; IEEEXPLORE

Search terms: rgb; cie; color; module; transform; correct

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**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 2004/0150847 A1 (MAHY) 05 August 2004 (05.08.2004) entire document</td>
<td>1, 9-11, 19-20</td>
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<td></td>
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<td>21</td>
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<tr>
<td>A</td>
<td>EP 1 083 739 B1 (MAHY et al) 18 June 2003 (18.06.2003)</td>
<td>1, 9-23</td>
</tr>
<tr>
<td>A</td>
<td>US 2004/0085482 A1 (CHENG) 06 May 2004 (06.05.2004) entire document</td>
<td>1, 9-23</td>
</tr>
<tr>
<td>T</td>
<td>REPRESENTING COLORS AS THREE NUMBERS Stone, Maureen IEEE Computer Society July/August 2005 (Vol. 25, No. 4) pp. 78-85 entire document</td>
<td>1, 9-23</td>
</tr>
</tbody>
</table>

Further documents are listed in the continuation of Box C.

See patent family annex.

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

3 January 2006

**Date of mailing of the international search report**

04 MAY 2006

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**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

Telephone No. 571-272-7774

Form PCT/ISA/210 (second sheet) (April 2005)
INTERNATIONAL SEARCH REPORT

Box No. 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:
   The preamble of dependent claims 2-8, the phrase "the method for manipulating the colors of digital images" does not repeat the preamble of corresponding independent Claim 1 and appears to define a different invention. It is not clear whether the invention defines a method for "enabling the correction of data representing digital images" or a method for "manipulating the colors of digital images".

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 No. 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:

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 additional fees, this Authority did not invite payment of additional fees.

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.:  

Remark on Protest ☐ The additional search fees were accompanied by the applicant’s protest and, where applicable, the payment of a protest fee.

☐ The additional search fees were accompanied by the applicant’s protest but the applicable protest fee was not paid within the time limit specified in the invitation.

☐ No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet (2)) (April 2005)