



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
12/450,637	Ingo Tobias Doser	PU070106

24498

Robert D. Shedd, Patent Operations
THOMSON Licensing LLC
P.O. Box 5312
Princeton, NJ 08543-5312

INTERNATIONAL APPLICATION NO.

PCT/FR2007/052525

I.A. FILING DATE	PRIORITY DATE
12/14/2007	04/03/2007

CONFIRMATION NO. 5743
371 FORMALITIES LETTER



OC000000039731266

Date Mailed: 01/20/2010

**NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371
IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)**

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated Office (37 CFR 1.494):

- Priority Document
- Copy of the International Application filed on 10/02/2009
- Copy of the International Search Report filed on 10/02/2009
- Preliminary Amendments filed on 10/02/2009
- Information Disclosure Statements filed on 10/02/2009
- Request for Immediate Examination filed on 10/02/2009
- U.S. Basic National Fees filed on 10/02/2009
- Priority Documents filed on 10/02/2009

The applicant needs to satisfy supplemental fees problems indicated below.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

SUMMARY OF FEES DUE:

Total additional fees required for this application is **\$130** for a Large Entity:

- **\$130** Surcharge.

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.

<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at <http://www.uspto.gov/ebc>.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

VALERIE D KINARD

Telephone: (703) 756-1432

CLAIMS						
	AS FILED		AFTER FIRST REVISION		AFTER SECOND REVISION	
	IND	DEP	IND	DEP	IND	DEP
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TOTAL IND.		↓	3	↓		↓
TOTAL DEP.		←	10	←		←
TOTAL CLAIMS			13			

12/450637

10-2-09

CLAIMS						
	AS FILED		AFTER FIRST REVISION		AFTER SECOND REVISION	
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PATENT APPLICATION FEE DETERMINATION RECORD

Effective December 8, 2004

Application or Docket Number

12/450637

CLAIMS AS FILED - PART I

(Column 1)

(Column 2)

SMALL ENTITY
TYPE ☐ OR

OTHER THAN
SMALL ENTITY

U.S. NATIONAL STAGE FEES		
BASIC FEE	SMALL ENT. = \$ 150	LARGE ENT. = \$ 300
EXAMINATION FEE	Satisfies PCT Article 33(I)-(ii) = \$ 50 / \$ 100	All other situations = \$ 100 / \$ 200
SEARCH FEE	U.S. is ISA = \$ 50 / \$ 100 ALL other countries = \$ 200 / \$ 400	ALL other situations = \$ 250 / \$ 500
FEE FOR EXTRA SPEC. PGS.	minus 100 =	/ 50 =
TOTAL CHARGEABLE CLAIMS	13 minus 20 =	
INDEPENDENT CLAIMS	3 minus 3 =	
MULTIPLE DEPENDENT CLAIM PRESENT ☐		

RATE	FEE
BASIC FEE	
EXAM. FEE	
SEARCH FEE	
X \$ 125 =	
X \$ 25 =	
X \$ 100 =	
+ \$ 180 =	
TOTAL	

RATE	FEE
BASIC FEE	330
EXAM. FEE	220
SEARCH FEE	430
X \$ 250 =	
X \$ 50 =	
X \$ 200 =	
+ \$ 360 =	
TOTAL	980

* If the difference in column 1 is less than zero, enter "0" in column 2

CLAIMS AS AMENDED - PART II

(Column 1)

(Column 2)

(Column 3)

SMALL ENTITY OR

OTHER THAN
SMALL ENTITY

AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total	*		Minus	**	=
Independent	*		Minus	***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM ☐					

RATE	ADDI- TIONAL FEE
X \$ 25 =	
X \$ 100 =	
+ \$ 180 =	
TOTAL ADDI- FEE	

RATE	ADDI- TIONAL FEE
X \$ 50 =	
X \$ 200 =	
+ \$ 360 =	
TOTAL ADDI- FEE	

(Column 1)

(Column 2)

(Column 3)

AMENDMENT B		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total	*		Minus	**	=
Independent	*		Minus	***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM ☐					

RATE	ADDI- TIONAL FEE
X \$ 25 =	
X \$ 100 =	
+ \$ 180 =	
TOTAL ADDI- FEE	

RATE	ADDI- TIONAL FEE
X \$ 50 =	
X \$ 200 =	
+ \$ 360 =	
TOTAL ADDI- FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than "20", enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than "3", enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

EXPRESS MAIL EM 322487702 US
Serial No:12 /450,637

IAPO3Rec'd PCT 08 APR 2010

PATENT
PU070106

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Ingo Doser; Jurgen Stauder; Bongsun Lee
Serial No. : 12/450,637
Int'l Appln. No. : PCT/FR2007/052525
Int'l Filing Date : December 14, 2007
For : METHODS AND SYSTEMS FOR DISPLAYS WITH CHROMATIC
CORRECTION WITH DIFFERING CHROMATIC RANGES

RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS OF APPLICATION -

MAIL STOP PCT
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

In response to the Notification of Missing Requirements of Application Under 37
CFR 371, mailed January 20, 2010, and relating to the above-identified application Serial
No.12/450,637, Applicants hereby submit the following:

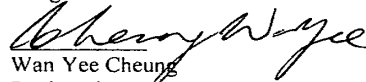
- 1) An executed Declaration and Powers of Attorney
- 2) Petition for one-month extension of time under 37 CFR 1.136(a).
- 3) Copy of Missing Parts Notice PCT/DO/EO/905.

Please charge the following fees to Deposit Account No. 07-0832:

- 1) A surcharge of **\$130.00** required under 37 CFR 1.497(a) and (b) for filing
the Declaration on a date later than the appropriate 30 months from the
priority date (37 CFR 1.492(e)).
- 2) One-month Extension of Time Fee **\$130.00**

Please charge any additional fees and credit any overpayments to Deposit Account
No. 07-0832. A duplicate copy of this letter is enclosed for use in charging the deposit account.

Respectfully submitted,
Ingo Doser
Jurgen Stauder
Bongsun Lee


Wan Yee Cheung
Registration No. 42,410
609/734-6834

THOMSON Licensing LLC
PO Box 5312
Princeton, NJ 08543-5312

DATE: *April 8, 2010*
(Letter In Duplicate)

04/09/2010 LLANDGRA 00000055 070832 12450637

01 FC:1617 130.00 DA

EXPRESS,MAIL EM 322487702 US
Serial No.12 /450,637

PATENT
PU070106

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Ingo Doser; Jurgen Stauder; Bongsun Lee
Serial No. : 12/450,637
Int'l Appln. No. : PCT/FR2007/052525
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Sir:

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CFR 371, mailed January 20, 2010, and relating to the above-identified application Serial
No.12/450,637, Applicants hereby submit the following:

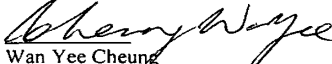
- 1) An executed Declaration and Powers of Attorney
- 2) Petition for one-month extension of time under 37 CFR 1.136(a).
- 3) Copy of Missing Parts Notice PCT/DO/EO/905.

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the Declaration on a date later than the appropriate 30 months from the
priority date (37 CFR 1.492(e)).
- 2) One-month Extension of Time Fee **\$130.00**

Please charge any additional fees and credit any overpayments to Deposit Account
No. 07-0832. A duplicate copy of this letter is enclosed for use in charging the deposit account.

Respectfully submitted,
Ingo Doser
Jurgen Stauder
Bongsun Lee


Wan Yee Cheung
Registration No. 42,410
609/734-6834

THOMSON Licensing LLC
PO Box 5312
Princeton, NJ 08543-5312

DATE: *April 8, 2010*
(Letter In Duplicate)

EXPRESS EM 322487702 US

PTO/SB/22 (08-03)

Approved for use through 7/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)		Docket Number (Optional) PU070106
In re Application of Ingo Tobias Doser et al. Application Number 12/450637 Filed (Int'l) Dec. 14, 2007 For Methods and Systems For Displays With Chromatic Correction With Differing Chromatic Ranges Art Unit Examiner		
This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above identified application. The requested extension and appropriate non-small-entity fee are as follows (check time period desired): ☒ One month (37 CFR 1.17(a)(1)) ☐ Two months (37 CFR 1.17(a)(2)) ☐ Three months (37 CFR 1.17(a)(3)) ☐ Four months (37 CFR 1.17(a)(4)) ☐ Five months (37 CFR 1.17(a)(5)) \$130.00 \$ _____ \$ _____ \$ _____ \$ _____ ☐ Applicant claims small entity status. See 37 CFR 1.27. Therefore, the fee amount shown above is reduced by one-half, and the resulting fee is: \$ _____. ☐ A check in the amount of the fee is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director has already been authorized to charge fees in this application to a Deposit Account. ☒ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number <u>07-0832</u>. I have enclosed a duplicate copy of this sheet. I am the ☐ applicant/inventor. ☐ assignee of record of the entire interest. See 37 CFR 3.71 Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96). ☒ attorney or agent of record. Registration Number <u>42,410</u> ☐ attorney or agent under 37 CFR 1.34(a). Registration number if acting under 37 CFR 1.34(a): _____ WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. <u>April 8, 2010</u> Date <u>609-734-6834</u> Telephone Number <u></u> Signature Wan Yee Cheung1 Typed or printed name NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below. ☒ Total of 1 forms are submitted.		

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

04/09/2010 LLANDGRA 00000055 070832 12450637

02 FC:1251 130.00 DA

EXPRESS EM 322487702 US

PTO/SB/22 (08-03)

Approved for use through 7/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION FOR EXTENSION OF TIME UNDER 37 CFR 1.136(a)		Docket Number (Optional) PU070106
In re Application of Ingo Tobias Doser et al.		
Application Number 12/450637		Filed (Int'l) Dec. 14, 2007
For Methods and Systems For Displays With Chromatic Correction With Differing Chromatic Ranges		
Art Unit	Examiner	

This is a request under the provisions of 37 CFR 1.136(a) to extend the period for filing a reply in the above identified application.

The requested extension and appropriate non-small-entity fee are as follows (check time period desired):

☒ One month (37 CFR 1.17(a)(1))	\$130.00
☐ Two months (37 CFR 1.17(a)(2))	\$ _____
☐ Three months (37 CFR 1.17(a)(3))	\$ _____
☐ Four months (37 CFR 1.17(a)(4))	\$ _____
☐ Five months (37 CFR 1.17(a)(5))	\$ _____

☐ Applicant claims small entity status. See 37 CFR 1.27. Therefore, the fee amount shown above is reduced by one-half, and the resulting fee is: \$ _____.

☐ A check in the amount of the fee is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director has already been authorized to charge fees in this application to a Deposit Account.

☒ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 07-0832.

I have enclosed a duplicate copy of this sheet.

I am the ☐ applicant/inventor.

☐ assignee of record of the entire interest. See 37 CFR 3.71.

Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

☒ attorney or agent of record. Registration Number 42,410

☐ attorney or agent under 37 CFR 1.34(a).

Registration number if acting under 37 CFR 1.34(a). _____.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

<u>April 8, 2010</u> Date	<u></u> Signature
<u>609-734-6834</u> Telephone Number	<u>Wan Yee Cheung</u> Typed or printed name

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☒ Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.136(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

EXPRESS EM 300487702 US

Please type a plus sign (+) inside this box → ☐

PTO/SB/01 (10-00)

Approved for use through 10/31/2002 OMB 0651-0032

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) ☐ Declaration Submitted With Initial Filing OR ☐ Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	Attorney Docket Number	PU070106
	First Named Inventor	Ingo Tobias Doser et al.
	COMPLETE IF KNOWN	
	Application Number	/
	Filing Date	
	Group Art Unit	
	Examiner Name	

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHOD AND SYSTEM FOR COLOR CORRECTING DISPLAYS WITH DIFFERENT COLOR GAMUTS

the specification of which (Title of the Invention)

☐ is attached hereto

OR

☒ was filed on (MM/DD/YYYY) **December 14, 2007** as United States Application Number or PCT International

Application Number **PCT/FR2007/052525** and was amended on (MM/DD/YYYY) **October 2, 2009** (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims as amended specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY) Country	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)
60/921,579	April 3, 2007

☐ Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 3]

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PUO 70106

Please type a plus sign (+) inside this box → ☐

PTO/SB/01 (10-00)

Approved for use through 10/31/2002 OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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DECLARATION — Utility or Design Patent Application

Direct all correspondence to: ☐ Customer Number or Bar Code Label		OR ☐ Correspondence address below	
Name	ROBERT D. SHEDD		
Address	Thomson Licensing LLC		
Address	PO Box 5312		
City	State	ZIP	
PRINCETON	NJ	08543-5312	
Country	Telephone	Fax	
USA	(609-734-6834)	(609) 734 -6888	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.			
NAME OF SOLE OR FIRST INVENTOR:		☐ A petition has been filed for this unsigned inventor	
Given Name	Family Name		
INGO TOBIAS	DOSER		
Inventor's Signature	Date		
<i>x Ingo Doser</i>	8/17/10		
Residence: City	State	Country	Citizenship
Villingen-Schwenningen		DE	DE
Mailing Address			
Mailing Address Zeppelinstrasse 1/7			
City	State	ZIP	Country
Villingen-Schwenningen		78050	DE
NAME OF SECOND INVENTOR:		☐ A petition has been filed for this unsigned inventor	
Given Name	Family Name		
JURGEN	STAUDER		
Inventor's Signature	Date		
Residence: City	State	Country	Citizenship
35440 Montreuil sur Ille		FR	DE
Mailing Address			
Mailing Address Le Bas Epinau			
City	State	ZIP	Country
35440 Montreuil sur Ille		78056	FR
☒ Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.			

PU070106

PTO/SB/02A (11-00)

Please type a plus sign (+) inside this box → ☐

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION	ADDITIONAL INVENTOR(S) Supplemental Sheet Page 3 of 3
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Name of Additional Joint Inventor, if any:		☐ A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
BONGSUN		LEE	
Inventor's Signature		Date	
Residence: City	La Crescenta	State	CA
		Country	US
		Citizenship	KR
Mailing Address			
2914 Alabama Street			
City	La Crescenta	State	California
		ZIP	91214
		Country	US
Name of Additional Joint Inventor, if any:		☐ A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Inventor's Signature		Date	
Residence: City		State	
		Country	
		Citizenship	
Mailing Address			
Mailing Address			
City		State	
		Zip	
		Country	
Name of Additional Joint Inventor, if any:		☐ A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Inventor's Signature		Date	
Residence: City		State	
		Country	
		Citizenship	
Mailing Address			
Mailing Address			
City		State	
		Zip	
		Country	

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Please type a plus sign (+) inside this box → ☐

PTO/SB/01 (10-00)
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	First Named Inventor	Ingo Tobias Doser et al.
	COMPLETE IF KNOWN	
	Application Number	/
	Filing Date	
	Group Art Unit	
	Examiner Name	

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**METHOD AND SYSTEM FOR COLOR CORRECTING DISPLAYS WITH
DIFFERENT COLOR GAMUTS**

the specification of which (Title of the Invention)

☐ is attached hereto
OR
☒ was filed on (MM/DD/YYYY) **December 14, 2007** as United States Application Number or PCT International

Application Number **PCT/FR2007/052525** and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims as amended specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY) Country	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	☐ Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.
60/921,579	April 3, 2007	

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box →



PTO/SB/01 (10-00)

Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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DECLARATION — Utility or Design Patent Application

Direct all correspondence to:		☐ Customer Number or Bar Code Label		☐ Correspondence address below	
Name JOSEPH J. LAKS					
Address Thomson Licensing LLC					
Address PO Box 5312					
City PRINCETON			State NJ		ZIP 08543-5312
Country USA		Telephone (609) 734-6801		Fax (609) 734-6888	
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.					
NAME OF SOLE OR FIRST INVENTOR:			☐ A petition has been filed for this unsigned inventor		
Given Name INGO TOBIAS			Family Name DOSER or Surname		
Inventor's Signature					Date
Residence: City Donaueschingen		State	Country DE		Citizenship DE
Mailing Address Lehenstrasse 21					
City Donaueschingen		State	ZIP 78166	Country DE	
NAME OF SECOND INVENTOR:			☐ A petition has been filed for this unsigned inventor		
Given Name JURGEN			Family Name STAUDER or Surname		
Inventor's Signature <i>Jürgen Stauder</i>		Date March 17, 2008			
Residence: City 35440 Montreuil sur Ille		State	Country FR		Citizenship DE
Mailing Address Le Bas Epinau					
City 35440 Montreuil sur Ille		State	ZIP 78056	Country FR	
☒ Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.					

[Page 2 of 3]

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DECLARATION**ADDITIONAL INVENTOR(S)**
Supplemental Sheet
Page 3 of 3

Name of Additional Joint Inventor, if any:		☐ A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
BONGSUN		LEE	
Inventor's Signature		Date	
Residence: City	La Crescenta	State	CA
		Country	US
Citizenship		KR	
Mailing Address			
Mailing Address 2914 Alabama Street			
City	La Crescenta	State	California
ZIP	91214	Country US	
Name of Additional Joint Inventor, if any:		☐ A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Inventor's Signature		Date	
Residence: City		State	
		Country	
Citizenship			
Mailing Address			
Mailing Address			
City		State	
ZIP		Country	
Name of Additional Joint Inventor, if any:		☐ A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Inventor's Signature		Date	
Residence: City		State	
		Country	
Citizenship			
Mailing Address			
Mailing Address			
City		State	
ZIP		Country	

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Please type a plus sign (+) inside this box →



PTO/SB/01 (10-00)

Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)	Attorney Docket Number	PU070106
	First Named Inventor	Ingo Tobias Doser et al.
	COMPLETE IF KNOWN	
	Application Number	/
	Filing Date	
	Group Art Unit	
☐ Declaration Submitted With Initial Filing	OR	☐ Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)
	Examiner Name	

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

METHOD AND SYSTEM FOR COLOR CORRECTING DISPLAYS WITH DIFFERENT COLOR GAMUTS

the specification of which (Title of the Invention)

☐ is attached hereto

OR

☒ was filed on (MM/DD/YYYY)

December 14, 2007

as United States Application Number or PCT International

Application Number **PCT/FR2007/052525** and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims as amended specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY) Country	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐
			☐	☐	☐

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	☐ Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.
60/921,579	April 3, 2007	

[Page 1 of 3]

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Please type a plus sign (+) inside this box →



PTO/SB/01 (10-00)

Approved for use through 10/31/2002. OMB 0651-0032

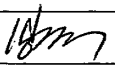
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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DECLARATION — Utility or Design Patent Application

Direct all correspondence to:		☐ Customer Number or Bar Code Label				OR		☐ Correspondence address below	
Name		JOSEPH J. LAKS							
Address		Thomson Licensing LLC							
Address		PO Box 5312							
City				State		ZIP			
PRINCETON				NJ		08543-5312			
Country			Telephone			Fax			
USA			(609-734-6801			(609) 734 -6888			
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.									
NAME OF SOLE OR FIRST INVENTOR:				☐ A petition has been filed for this unsigned inventor					
Given Name				INGO TOBIAS			Family Name or Surname		
							DOSER		
Inventor's Signature								Date	
Residence: City				State		Country		Citizenship	
Donaueschingen						DE		DE	
Mailing Address									
Mailing Address Lehenstrasse 21									
City			State		ZIP		Country		
Donaueschingen					78166		DE		
NAME OF SECOND INVENTOR:				☐ A petition has been filed for this unsigned inventor					
Given Name				JURGEN			Family Name or Surname		
							STAUDER		
Inventor's Signature							Date		
Residence: City				State		Country		Citizenship	
35440 Montreuil sur Ille						FR		DE	
Mailing Address									
Mailing Address Le Bas Epinau									
City			State		ZIP		Country		
35440 Montreuil sur Ille					78056		FR		
☒ Additional inventors are being named on the 1 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.									

Please type a plus sign (+) inside this box → +Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.**DECLARATION****ADDITIONAL INVENTOR(S)**
Supplemental Sheet
Page 3 of 3

Name of Additional Joint Inventor, if any:		☐ A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
BONGSUN		LEE	
Inventor's Signature 		Date 2/7/08	
Residence: City	La Crescenta	State	CA
		Country	US
		Citizenship	KR
Mailing Address			
Mailing Address 2914 Alabama Street			
City	La Crescenta	State	California
		ZIP	91214
		Country	US
Name of Additional Joint Inventor, if any:		☐ A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Inventor's Signature		Date	
Residence: City		State	
		Country	
		Citizenship	
Mailing Address			
Mailing Address			
City		State	
		Zip	
		Country	
Name of Additional Joint Inventor, if any:		☐ A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Inventor's Signature		Date	
Residence: City		State	
		Country	
		Citizenship	
Mailing Address			
Mailing Address			
City		State	
		Zip	
		Country	

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

U.S. APPLICATION NUMBER NO. 12/450,637	FIRST NAMED APPLICANT Ingo Tobias Doser	ATTY. DOCKET NO. PU070106
24498 Robert D. Shedd, Patent Operations THOMSON Licensing LLC P.O. Box 5312 Princeton, NJ 08543-5312		INTERNATIONAL APPLICATION NO. PCT/FR2007/052525
RECEIVED JAN 26 2010 USPatOPS		I.A. FILING DATE 12/14/2007
		PRIORITY DATE 04/03/2007

CONFIRMATION NO. 5743
371 FORMALITIES LETTER



Date Mailed: 01/20/2010

**NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371
IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)**

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated Office (37 CFR 1.494):

- Priority Document
- Copy of the International Application filed on 10/02/2009
- Copy of the International Search Report filed on 10/02/2009
- Preliminary Amendments filed on 10/02/2009
- Information Disclosure Statements filed on 10/02/2009
- Request for Immediate Examination filed on 10/02/2009
- U.S. Basic National Fees filed on 10/02/2009
- Priority Documents filed on 10/02/2009

Event	UTP LOSS
Deadline	20/03/10
Entered	27/01/10

The applicant needs to satisfy supplemental fees problems indicated below.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

SUMMARY OF FEES DUE:

Total additional fees required for this application is **\$130** for a Large Entity:

- **\$130** Surcharge.

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.
<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or visit our website at <http://www.uspto.gov/ebs>.

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

VALERIE D KINARD

Telephone: (703) 756-1432



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
12/450,637	Ingo Tobias Doser	PU070106
24498 Robert D. Shedd, Patent Operations THOMSON Licensing LLC P.O. Box 5312 Princeton, NJ 08543-5312		INTERNATIONAL APPLICATION NO. PCT/FR2007/052525
		I.A. FILING DATE 12/14/2007
		PRIORITY DATE 04/03/2007

CONFIRMATION NO. 5743
371 ACCEPTANCE LETTER



Date Mailed: 05/21/2010

NOTICE OF ACCEPTANCE OF APPLICATION UNDER 35 U.S.C 371 AND 37 CFR 1.495

The applicant is hereby advised that the United States Patent and Trademark Office in its capacity as a Designated / Elected Office (37 CFR 1.495), has determined that the above identified international application has met the requirements of 35 U.S.C. 371, and is ACCEPTED for national patentability examination in the United States Patent and Trademark Office.

The United States Application Number assigned to the application is shown above and the relevant dates are:

04/08/2010
DATE OF RECEIPT OF 35 U.S.C. 371(c)(1),
(c)(2) and (c)(4) REQUIREMENTS

04/08/2010
DATE OF COMPLETION OF ALL
35 U.S.C. 371 REQUIREMENTS

A Filing Receipt (PTO-103X) will be issued for the present application in due course. **THE DATE APPEARING ON THE FILING RECEIPT AS THE " FILING DATE" IS THE DATE ON WHICH THE LAST OF THE 35 U.S.C. 371 (c)(1), (c)(2) and (c)(4) REQUIREMENTS HAS BEEN RECEIVED IN THE OFFICE. THIS DATE IS SHOWN ABOVE.** The filing date of the above identified application is the international filing date of the international application (Article 11(3) and 35 U.S.C. 363). Once the Filing Receipt has been received, send all correspondence to the Group Art Unit designated thereon.

The following items have been received:

- Copy of the International Application filed on 10/02/2009
- Copy of the International Search Report filed on 10/02/2009
- Preliminary Amendments filed on 10/02/2009
- Information Disclosure Statements filed on 10/02/2009
- Oath or Declaration filed on 04/08/2010
- Request for Immediate Examination filed on 10/02/2009
- U.S. Basic National Fees filed on 10/02/2009
- Priority Documents filed on 10/02/2009

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

ZETA T ADAMS

Telephone: (703) 756-1417



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
12/450,637	04/08/2010	2625	1110	PU070106	13	3

CONFIRMATION NO. 5743

24498

Robert D. Shedd, Patent Operations
THOMSON Licensing LLC
P.O. Box 5312
Princeton, NJ 08543-5312

FILING RECEIPT



OC000000041705768

Date Mailed: 05/21/2010

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Applicant(s)

Ingo Tobias Doser, Villingen-Schwenningen, GERMANY;
Jurgen Stauder, Montreuil sur Ille, FRANCE;
Bongsun Lee, La Crescenta, CA;

Power of Attorney: The patent practitioners associated with Customer Number 24498

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/FR2007/052525 12/14/2007
which claims benefit of 60/921,579 04/03/2007

Foreign Applications

If Required, Foreign Filing License Granted: 05/19/2010

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 12/450,637**

Projected Publication Date: 09/02/2010

Non-Publication Request: No

Early Publication Request: No

Title

METHOD AND SYSTEM FOR COLOR CORRECTING DISPLAYS WITH DIFFERENT COLOR GAMUTS

Preliminary Class

358

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where

the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
12/450,637	04/08/2010	Ingo Tobias Doser	PU070106

CONFIRMATION NO. 5743

24498

Robert D. Shedd, Patent Operations
THOMSON Licensing LLC
P.O. Box 5312
Princeton, NJ 08543-5312

PUBLICATION NOTICE



Title:METHODS AND SYSTEMS FOR DISPLAYS WITH CHROMATIC CORRECTION WITH DIFFERING CHROMATIC RANGES

Publication No.US-2010-0220237-A1

Publication Date:09/02/2010

NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

The publication may be accessed through the USPTO's publicly available Searchable Databases via the Internet at www.uspto.gov. The direct link to access the publication is currently <http://www.uspto.gov/patft/>.

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Office of Data Management, Application Assistance Unit (571) 272-4000, or (571) 272-4200, or 1-888-786-0101

Serial No. 12/450,637
Customer No. 24498

PU070106



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Ingo Tobias Doser; Jurgen Stauder; Bongsun Lee
U.S. Serial No.: 12/450,637
U.S. Filed: April 8, 2010
For: METHODS AND SYSTEMS FOR DISPLAYS WITH
CHROMATIC CORRECTION WITH DIFFERING
CHROMATIC RANGES

REQUEST FOR CORRECTION OF FILING RECEIPT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

It has been discovered that the title of the application is incorrect on the Filing Receipt.

The correct title should be:

**METHODS AND SYSTEMS FOR DISPLAYS WITH
CHROMATIC CORRECTION WITH DIFFERING
CHROMATIC RANGES**

A copy of the filing receipt with the changes noted is enclosed herewith.

Please issue a corrected filing receipt.

No fee is believed due in this regard. However, if a fee is due, please charge the fee to Deposit Account 07-0832.

Respectfully submitted,
Ingo Tobias Doser
Jurgen Stauder
Bongsun Lee

BY:

Wan Yee Cheung
Wan Yee Cheung, Attorney
Reg. No. 42,410
(609) 734-6834

THOMSON Licensing LLC
Patent Operations
Two Independence Way
Princeton, NJ 08540

Date: 10/29/10

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Date: Oct. 29, 2010 Signature: David J. Furrow

Serial No. 12/450,637
Customer No. 24498

PU070106



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Date: Oct-29, 2010 Signature: David J. Furawatto

TO BE CORRECTED
(see PAGE 2 for TITLE)



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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
12/450,637	04/08/2010	2625	1110	PU070106	13	3

24498
Robert D. Shedd, Patent Operations
THOMSON Licensing LLC
P.O. Box 5312
Princeton, NJ 08543-5312



CONFIRMATION NO. 5743
FILING RECEIPT



Date Mailed: 05/21/2010

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Applicant(s)

Ingo Tobias Doser, Villingen-Schwenningen, GERMANY;
Jurgen Stauder, Montreuil sur Ille, FRANCE;
Bongsun Lee, La Crescenta, CA;

Power of Attorney: The patent practitioners associated with Customer Number 24498

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/FR2007/052525 12/14/2007
which claims benefit of 60/921,579 04/03/2007

Foreign Applications

If Required, Foreign Filing License Granted: 05/19/2010

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 12/450,637**

Projected Publication Date: 09/02/2010

Non-Publication Request: No

Early Publication Request: No

Event	REDC GRANTED
Deadline	/
Entered	12 25/05/10

Title

~~METHOD AND SYSTEM FOR COLOR CORRECTING DISPLAYS WITH DIFFERENT COLOR~~
~~GAMUTS~~

Preliminary Class

METHODS AND SYSTEMS FOR DISPLAYS WITH CHROMATIC
CORRECTION WITH DIFFERING CHROMATIC RANGES

358

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Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

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For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

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Title 37, Code of Federal Regulations, 5.11 & 5.15

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
12/450,637	04/08/2010	2622	1110	PU070106	13	3

CONFIRMATION NO. 5743

CORRECTED FILING RECEIPT



OC000000044434975

24498
Robert D. Shedd, Patent Operations
THOMSON Licensing LLC
P.O. Box 5312
Princeton, NJ 08543-5312

Date Mailed: 11/10/2010

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

Applicant(s)

Ingo Tobias Doser, Villingen-Schwenningen, GERMANY;
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Bongsun Lee, La Crescenta, CA;

Power of Attorney: The patent practitioners associated with Customer Number 24498

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which claims benefit of 60/921,579 04/03/2007

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Projected Publication Date: Not Applicable

Non-Publication Request: No

Early Publication Request: No

Title

METHODS AND SYSTEMS FOR DISPLAYS WITH CHROMATIC CORRECTION WITH DIFFERING CHROMATIC RANGES

Preliminary Class

348

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

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Title 37, Code of Federal Regulations, 5.11 & 5.15

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NOT GRANTED

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/450,637	04/08/2010	Ingo Tobias Doser	PU070106	5743
24498 7590 03/20/2012 Robert D. Shedd, Patent Operations THOMSON Licensing LLC P.O. Box 5312 Princeton, NJ 08543-5312			EXAMINER TEITELBAUM, MICHAEL E	
			ART UNIT 2422	PAPER NUMBER
			NOTIFICATION DATE 03/20/2012	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

uspto@technicolor.com
pat.verlangieri@technicolor.com
russell.smith@technicolor.com

Office Action Summary	Application No.	Applicant(s)	
	12/450,637	DOSER ET AL.	
	Examiner	Art Unit	
	MICHAEL TEITELBAUM, Ph.D.	2422	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on 08 April 2010.

2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.

3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on ____; the restriction requirement and election have been incorporated into this action.

4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

5) ☒ Claim(s) 1-13 is/are pending in the application.

5a) Of the above claim(s) ____ is/are withdrawn from consideration.

6) ☐ Claim(s) ____ is/are allowed.

7) ☒ Claim(s) 1-13 is/are rejected.

8) ☐ Claim(s) ____ is/are objected to.

9) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

10) ☐ The specification is objected to by the Examiner.

11) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

12) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)	4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. ____.
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) ☐ Notice of Informal Patent Application
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date ____.	6) ☐ Other: ____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. **Claims 1-2 and 4-10 and 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Spaulding et al. US 2005/0152612 hereinafter referred to as Spaulding.**

3. In regards to claim 1, Spaulding teaches:

4. ***"A method for color correcting, comprising: performing color correction on source picture content, using at least one of a non-reference type display having a non-reference color gamut and a reference type display having a reference color gamut"***

5. Spaulding teaches in paragraph [0015] and Figure 3 transforming images from an input color space to a reference color space. Spaulding teaches inputting a digital image from a first input color space 20 which is equivalent to a non-reference gamut. Spaulding teaches outputting an image in a reference color space 28. Spaulding teaches in paragraph [0016] that it is common for many digital images to have device dependent color spaces. Since it is well-known that color spaces are device dependent it would be known that this transformation would include color spaces from a non-reference and reference type displays.

6. Spaulding teaches:

7. *"wherein said performing step comprises: mastering the source picture content to provide mastered color corrected picture content for display on the reference type displays having a reference color gamut"*

8. Spaulding teaches in paragraph [0015] and Figure 3 that an algorithm is used to form an image in the reference color space. This is equivalent to mastering the image. Spaulding teaches that this algorithm **27** is applied to the input digital image in the reference color space **23** to form an output image in the reference color space **28**. If the output digital image is in the reference color space, then it is output for a reference-type display.

9. Spaulding teaches:

10. *"generating metadata for a subsequent inverse color gamut mapping that color transforms the mastered color corrected picture content for display on non-reference type displays having a non-reference color gamut"*

11. Spaulding teaches in paragraph [0015] and Figure 3 using an input color space identifier. In the broadest reasonable interpretation this is equivalent to generating metadata because metadata is data that contains information about other data. In this case, the data is the input image and the data containing information about the input image is the input color space identifier **24**. Therefore the input color space identifier **24** is equivalent to metadata. In paragraph [0019] Spaulding teaches that in some more complex cases an inverse color adjustment function must be applied that undoes the color adjustment function. Spaulding teaches that the color adjustment function performs color and tone transformations relating the

original scene colorimetry for display on reference video displays. The Examiner interprets that after the color adjustment function is completed, the image can be considered to be “mastered.” Therefore, since the inverse color adjustment is performed after the color adjustment function, this is equivalent to a subsequent inverse color gamut mapping that color transforms the mastered color corrected picture content. Spaulding teaches in paragraph [0015] and Figure 3 that using the input color space identifier **24** the mastered image (output digital image in reference color space **28**) can be transformed to an output color space **30**. Spaulding teaches that sometimes it can be desirable to have the output color space to be the same as the input color space. Therefore, transforming the image from the reference color space back to the original color space using the identifier **24** is equivalent to performing an inverse transformation on the mastered image for display on the non-reference type display.

12. Spaulding teaches:

13. *“wherein the subsequent inverse color gamut mapping is an inverse operation of a color gamut mapping applied during the color correction to obtain the mastered color corrected picture content for display on the reference type displays having the reference color gamut, and the source picture content is mastered only for the reference type displays having the reference color gamut”*

14. Spaulding teaches in paragraph [0019] that the color adjustment function performs color and tone transformations relating the original scene colorimetry for display on reference video displays. Original scene colorimetry is equivalent to source picture content. Furthermore, since

the inverse color adjustment is performed after the color adjustment function, this is equivalent to an inverse operation of a color gamut mapping applied during color correction.

15. Spaulding does not explicitly teach when each color gamut mapping is displayed on reference or non-reference type displays however Spaulding does teach in paragraph [0016] that there are various device dependent color spaces associated with various input and output devices. It would have been obvious for a person with ordinary skill in the art to know which color spaces can be rendered on reference or non-reference type displays because it is known that different color spaces are associated with certain devices and that certain devices may contain standard gamuts whereas others may contain extended gamuts.

16. **In regards to claim 2**, Spaulding teaches all the limitations of claim 1 and further teaches:

17. "wherein said step of mastering the source picture content comprises rendering the mastered color corrected picture content on the reference type display using a color gamut mapping that converts the source picture content for the non-reference type display to picture content for the reference type display"

18. Spaulding teaches in paragraph [0015] and Figure 3 that the input digital image is transformed to the reference color space **22** and image enhanced **27** and finally an output digital image in a reference color space **28** is created.

19. **In regards to claim 4**, Spaulding teaches all the limitations of claim 1 and further teaches:

20. "wherein the metadata is provided to the non-reference type displays for final consumption at least one of in-band and out-of-band with respect to the mastered color corrected picture content"

21. The terms "in-band" and "out-of-band" transmission merely mean transmitting the metadata either with or without the color corrected picture content. Therefore, since Spaulding teaches transmitting the metadata, i.e. input color space identifier 24 to the transform image to output color space 29, which occurs after the color correction has taken place, this is equivalent to out-of-band transmission.

22. **In regards to claim 5**, Spaulding teaches all the limitations of claim 1 and further teaches:

23. "wherein the reference type displays and the non-reference type displays are at least one of liquid crystal displays, plasma displays, cathode ray tube displays, digital light processing displays, organic light emitting diode displays, liquid crystal on silicon displays, and direct drive image light amplifier displays"

24. Spaulding teaches using a CRT display in paragraph [0016] as well as video displays in paragraph [0019]. Furthermore, it would be obvious to one of ordinary skill to use these types of displays for reference and non-reference displays as these are commonly known display types in the art.

25. **In regards to claim 6**, Spaulding teaches all the limitations of claim 1 and claim 6 contains the same limitations as claim 1. Therefore, claim 6 is rejected for the same limitations as claim 1.

26. **In regards to claim 7**, Spaulding teaches all the limitations of claim 6 and claim 7 contains the same limitations as claim 4. Therefore, claim 7 is rejected for the same reasoning as claim 4.

27. **In regards to claim 8**, Spaulding teaches all the limitations of claim 6 and claim 8 contains the same limitations as claim 5. Therefore, claim 8 is rejected for the same reasoning as claim 5.

28. **In regards to claim 9**, Spaulding teaches all the limitations of claim 1 and claim 9 contains the same limitations as claim 1. Therefore, claim 9 is rejected for the same limitations as claim 1.

29. **In regards to claim 10**, Spaulding teaches all the limitations of claim 9 and claim 10 contains the same limitations as claim 2. Therefore, claim 10 is rejected for the same reasoning as claim 2.

30. **In regards to claim 12**, Spaulding teaches all the limitations of claim 9 and claim 12 contains the same limitations as claim 4. Therefore, claim 12 is rejected for the same reasoning as claim 4.

31. **In regards to claim 13**, Spaulding teaches all the limitations of claim 9 and claim 13 contains the same limitations as claim 5. Therefore, claim 13 is rejected for the same reasoning as claim 5.

32. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Spaulding in view of HDMI Specification 1.3a hereinafter referred to as HDMI.

33. In regards to claim 3, Spaulding teaches all the limitations of claim 1 and further teaches:

34. "inverse [color gamut mapping]"

35. In paragraph [0019] Spaulding teaches that in some more complex cases an inverse color adjustment function must be applied that undoes the color adjustment function.

36. Spaulding does not explicitly teach:

**37. "further comprising transmitting a specification of the
.... color gamut mapping to at least one of the non-reference
type displays for consumer consumption"**

38. Spaulding indicates in paragraph [0019] that the color gamut mapping can introduce artifacts when transforming between extended and standard ranges however doesn't explicitly state that this can be alleviated through a metadata transmission of the gamut. However, this is well known in the art and is found in the HDMI 1.3a specification in Appendix E Gamut related Metadata. In Appendix E HDMI teaches that the xvYCC gamut is virtually unconstrained and that it is necessary for the video source to indicate the color gamut of the video and that the metadata allows the display to map the gamut of the video stream correctly. It would have been obvious for a person with ordinary skill in the art at the time of the invention to have modified Spaulding in view of HDMI to transmit metadata to the consumer device because this is included in the HDMI specification which one of ordinary skill understands must be adhered to for device to be compatible.

39. **In regards to claim 11**, Spaulding teaches all the limitations of claim 9 and claim 11 contains the same limitations as claim 3. Therefore, claim 11 is rejected for the same reasoning as claim 3.

Conclusion

The Examiner has cited particular columns and line numbers or paragraphs in the references applied to the claims above for the convenience of the Applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the Applicant in preparing responses, to fully consider the references in their entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage taught by the prior art or disclosed by the Examiner.

In case of amending the claimed invention, the Applicant is respectfully requested to indicate portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL TEITELBAUM, Ph.D. whose telephone number is (571)270-5996. The examiner can normally be reached on Monday thru Thursday 7:30AM to 6:00PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jefferey Harold can be reached on (571) 272-7519. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MICHAEL TEITELBAUM, Ph.D./
Examiner, Art Unit 2422
/JEFFEREY HAROLD/
Supervisory Patent Examiner, Art Unit 2422

Notice of References Cited	Application/Control No. 12/450,637	Applicant(s)/Patent Under Reexamination DOSER ET AL.	
	Examiner MICHAEL TEITELBAUM, Ph.D.	Art Unit 2422	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-			
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	HDMI 1.3a Specification, November 10, 2006
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<i>Index of Claims</i> 	Application/Control No. 12450637	Applicant(s)/Patent Under Reexamination DOSER ET AL.
	Examiner MICHAEL TEITELBAUM	Art Unit 2422

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

☒ Claims renumbered in the same order as presented by applicant	☐ CPA	☐ T.D.	☐ R.1.47
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CLAIM		DATE									
Final	Original	01/26/2012									
	1	✓									
	2	✓									
	3	✓									
	4	✓									
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	8	✓									
	9	✓									
	10	✓									
	11	✓									
	12	✓									
	13	✓									

<i>Search Notes</i> 	Application/Control No. 12450637	Applicant(s)/Patent Under Reexamination DOSER ET AL.
	Examiner MICHAEL TEITELBAUM	Art Unit 2422

SEARCHED			
Class	Subclass	Date	Examiner
348	649	1/26/201	MT

SEARCH NOTES		
Search Notes	Date	Examiner
Invnetor search in East	1/26/2011	MT
See attached East search history	1/26/2011	MT

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

/M.T./ Examiner.Art Unit 2422	
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Receipt date: 10/02/2009

IAP03Rec'd PCT 02 OCT 2009

12450637 - GAU: 2422

EXPRESS EM 32248670

12/450637

Customer #24498

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	
		Filing Date	
		First Named Inventor	DOSER
		Art Unit	
		Examiner Name	
Sheet 1	of 2	Attorney Docket Number	PU070106

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	US- 20020120781	8/29/2002	HIRASHIMA ET AL.	
	AB	US- 20050152597	7/14/2005	SPAULDING ET AL.	
	AC	US- 20050152612	7/14/2005	SPAULDING ET AL.	
	AD	US- 20060096483	5/11/2006	ANDREAS ET AL.	
	AE	US- 20040105581	6/3/2004	SAWADA	
	AF	US- 7403304	7/22/2008	ANDREAS ET AL.	
	AG	US- 6771323	8/3/2004	DEAN ET AL.	
	AH	US- 6268939	7/31/2001	KLASSEN ET AL.	
	AI	US- 5668890	9/16/1997	WINKELMAN	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	AJ	EP1578140	9/21/2005	Thomson Licens. SA		
	AK	DE10023270	5/2/2002	Kraus Software		10
	AL	JP2003169220	6/13/2003	Konishiroku Photo		10
	AM	WO2006050305	5/11/2006	Technicolor Inc		

Examiner Signature	/Michael Teitelbaum/	Date Considered	01/26/2012
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /M.T./

Receipt date: 10/02/2009

IAP03Rec'd PCT 02 OCT 2009
12450637 - GAU 2422
12/450637

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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	
		Filing Date	
		First Named Inventor	DOSER
		Art Unit	
		Examiner Name	
Sheet 2	of 2	Attorney Docket Number	PU070106

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		COPY OF INTERNATIONAL SEARCH REPORT, dated August 22, 2008.	

Examiner Signature	/Michael Teitelbaum/	Date Considered	01/26/2012
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This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	"12450637"	USPAT	OR	OFF	2012/01/26 11:16
L2	0	"12450637"	USPAT	ADJ	OFF	2012/01/26 11:17
L3	1	"12450637"	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:17
L4	1	"10757055"	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:24
L5	34	((INGO) near2 (DOSER)).INV.	US-PGPUB; USPAT	OR	OFF	2012/01/26 11:50
L6	36	((JURGEN) near2 (STAUDER)).INV.	US-PGPUB; USPAT	OR	OFF	2012/01/26 11:50
L7	16	((BONGSUN) near2 (LEE)).INV.	US-PGPUB; USPAT	OR	OFF	2012/01/26 11:50
L8	16	5or 6 or 7	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:50
L9	12	8 and gamut	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:50
L10	6	9 and inverse	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:50
L11	6	inverse gamut	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:51
L12	656	(extended or enhanced) near6 gamut	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:51
L13	12	12 same inverse	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:51
L14	0	12 same metatdata	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:52
L15	8	12 same identifier	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:52
L16	293	348/649.ccls.	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:55
L17	51	16 and gamut	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:55
L18	25	17 and inverse	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:55
L19	6	16 and 12	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:56

1/ 26/ 2012 12:09:31 PM**C:\Users\mteitelbaum\Documents\ e-Red Folder\ 12450637\ 12450637.wsp**



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BIB DATA SHEET

CONFIRMATION NO. 5743

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.		
12/450,637	04/08/2010	348	2422	PU070106		
RULE						
APPLICANTS Ingo Tobias Doser, Villingen-Schwenningen, GERMANY; Jurgen Stauder, Montreuil sur Ille, FRANCE; Bongsun Lee, La Crescenta, CA; ** CONTINUING DATA ***** This application is a 371 of PCT/FR2007/052525 12/14/2007 which claims benefit of 60/921,579 04/03/2007 ** FOREIGN APPLICATIONS ***** ** IF REQUIRED, FOREIGN FILING LICENSE GRANTED ** 05/19/2010						
Foreign Priority claimed ☐ Yes ☒ No 35 USC 119(a-d) conditions met ☐ Yes ☒ No Verified and /MICHAEL E TEITELBAUM/ Acknowledged Examiner's Signature		☐ Met after Allowance Initials	STATE OR COUNTRY GERMANY	SHEETS DRAWINGS 8	TOTAL CLAIMS 13	INDEPENDENT CLAIMS 3
ADDRESS Robert D. Shedd, Patent Operations THOMSON Licensing LLC P.O. Box 5312 Princeton, NJ 08543-5312 UNITED STATES						
TITLE METHODS AND SYSTEMS FOR DISPLAYS WITH CHROMATIC CORRECTION WITH DIFFERING CHROMATIC RANGES						
FILING FEE RECEIVED 1110	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:			☐ All Fees ☐ 1.16 Fees (Filing) ☐ 1.17 Fees (Processing Ext. of time) ☐ 1.18 Fees (Issue) ☐ Other _____ ☐ Credit		

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Ingo Tobias Doser et al.
Serial No.: 12/450,637
Filed: April 8, 2010
Examiner: Michael E. Teitelbaum
Art Unit: 2422
Conf. No: 5743
For: Methods and Systems for Displays with Chromatic Correction
with Differing Chromatic Ranges

Mail Stop **Amendment**
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Amendment under 37 C.F.R. §1.111

Sir:

In response to the Office Action of March 20, 2012, please enter the following amendments and remarks, and reconsider the above-identified application as follows:

Listing and Amendments to the claims begin on page 2 of this paper.

Remarks begin on page 6 of this paper.

Applicants hereby petition for a 3-month extension of time to allow for a timely submission of this amendment. Please charge the time extension fee, and any additional fees that may be required, to Deposit Account 07-0832.

Listing and Amendment to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (currently amended) A method for color correcting, comprising:
performing color correction on source picture content, using at least one of a non-reference type display having a non-reference color gamut and a reference type display having a reference color gamut,
wherein said performing step comprises:
mastering the source picture content to provide mastered color corrected picture content for display on the reference type displays having a reference color gamut; and
generating metadata for a subsequent inverse color gamut mapping that color transforms the mastered color corrected picture content for display on non-reference type displays having a non-reference color gamut, wherein the metadata describes difference between colors of the non-reference type displays and the reference type displays; and
wherein the subsequent inverse color gamut mapping is an inverse operation of a color gamut mapping applied during the color correction to obtain the mastered color corrected picture content for display on the reference type displays having the reference color gamut, and the source picture content is mastered only for the reference type displays having the reference color gamut.
2. (original) The method of claim 1, wherein said step of mastering the source picture content comprises rendering the mastered color corrected picture content on the reference type display using a color gamut mapping that converts the source picture content for the non-reference type display to picture content for the reference type display.
3. (original) The method of claim 1, further comprising transmitting a specification of the inverse color gamut mapping to at least one of the non-reference type displays for consumer consumption.

4. (original) The method of claim 1, wherein the metadata is provided to the non-reference type displays for final consumption at least one of in-band and out-of-band with respect to the mastered color corrected picture content.

5. (original) The method of claim 1, wherein the reference type displays and the non-reference type displays are at least one of liquid crystal displays, plasma displays, cathode ray tube displays, digital light processing displays, organic light emitting diode displays, liquid crystal on silicon displays, and direct drive image light amplifier displays.

6. (currently amended) A system for color correcting, comprising:

a color correction module for performing color correction on source picture content, using at least one of a non-reference type display having a non-reference color gamut and a reference type display having a reference color gamut, to provide mastered color corrected picture content for display on the reference type displays having a reference color gamut; and

a color gamut mapping module for performing a color gamut mapping with respect to the mastered color corrected picture content for display on the reference type displays having the reference color gamut to generate metadata for a subsequent inverse color gamut mapping with respect to the color gamut mapping, the subsequent inverse color gamut mapping color transforming the mastered color corrected picture content for display on non-reference type displays having a non-reference color gamut, wherein the metadata describes difference between colors of the non-reference type displays and the reference type displays; and

wherein the source picture content is mastered only for the reference type displays having the reference color gamut.

7. (original) The system of claim 6, wherein the metadata is provided to the non-reference type displays for final consumption at least one of in-band and out-of-band with respect to the mastered color corrected picture content.

8. (original) The system of claim 6, wherein the reference type displays and the non-reference type displays are at least one of liquid crystal displays, plasma displays, cathode ray

tube displays, digital light processing displays, organic light emitting diode displays, liquid crystal on silicon displays, and direct drive image light amplifier displays.

9. (currently amended) A system for color correcting, comprising:

means for performing color correction on source picture content, using at least one of a non-reference type display having a non-reference color gamut and a reference type display having a reference color gamut,

wherein said means for performing color correction comprises:

means for mastering the source picture content to provide mastered color corrected picture content for display on the reference type displays having a reference color gamut; and

means for generating metadata for a subsequent inverse color gamut mapping that color transforms the mastered color corrected picture content for display on non-reference type displays having a non-reference color gamut, wherein the metadata describes difference between colors of the non-reference type displays and the reference type displays;

wherein the subsequent inverse color gamut mapping is an inverse operation of a color gamut mapping applied during the color correction to obtain the mastered color corrected picture content for display on the reference type displays having the reference color gamut, and the source picture content is mastered only for the reference type displays having the reference color gamut.

10. (original) The system of claim 9, wherein said means for mastering the source picture content comprises means for rendering the mastered color corrected picture content on the reference type display using a color gamut mapping that converts the source picture content for the non-reference type display to picture content for the reference type display.

11. (original) The system of claim 9, further comprising means for transmitting a specification of the inverse color gamut mapping to at least one of the non-reference type displays for consumer consumption.

12. (original) The system of claim 9, wherein the metadata is provided to the non-reference type displays for final consumption at least one of in-band and out-of-band with respect to the mastered color corrected picture content.

13. (original) The system of claim 9, wherein the reference type displays and the non-reference type displays are at least one of liquid crystal displays, plasma displays, cathode ray tube displays, digital light processing displays, organic light emitting diode displays, liquid crystal on silicon displays, and direct drive image light amplifier displays.

Remarks

In the Office Action of March 20, 2012, claims 1-13 were rejected under 35 U.S.C. §103.

By this amendment, claims 1, 6 and 9 have been amended. No new matter has been added.

Rejection under 35 U.S.C. §103(a)

Claims 1-2, 4-10 and 12-13

Claims 1-2, 4-10 and 12-13 stand rejected as being unpatentable over Spaulding et al. (US 2005/015612, hereinafter, "Spaulding").

The Office Action cited para. [0015]-[0016], [0019] and Fig. 3 of Spaulding as allegedly teaching various features of Applicants' claim 1. Although Applicants do not agree with the Office Action's interpretation of Spaulding's teaching, e.g., that the input color space identifier is equivalent to generating metadata, among others, claim 1 has nonetheless been amended to further recite: *"wherein the metadata describes difference between colors of the non-reference type displays and the reference type displays."*

Support can be found in the original specification, e.g., at least on p.12, lines 10-11 of the English specification (or para. [0064] of the US published application, US 2010/0220237 A1). No new matter has been added.

Independent claims 6 and 9 have also been amended in a similar manner.

Applicants submit that there is no showing in Spaulding of any teaching or suggestion of metadata that describes difference between colors of the non-reference type displays and the reference type displays. Thus, the amended claims 1, 6 and 9 are patentable over Spaulding.

Since claims 2, 4-5, 7-8, 10 and 12-13 depend from their respective base claim 1, 6 or 9, these claims are also patentable over Spaulding for the same reasons set forth above.

Claims 3 and 11

Claims 3 and 11 stand rejected as being unpatentable over Spaulding in view of HDMI Specification 1.3a, hereinafter, "HDMI".

Claims 3 and 11 depend from claim 1 and claim 9, respectively. Since there is no showing that HDMI teaches or suggests the metadata describing difference between colors of non-reference and reference types of displays, as provided in claims 1 and 9, claims 3 and 11 are

also patentable over Spaulding and HDMI at least by virtue of their dependencies on claims 1 and 11.

The rejection of claims 1-13 under 35 U.S.C. §103(a) has been overcome.

Conclusion

In view of the foregoing, Applicants solicit entry of this Amendment and allowance of the claims.

Respectfully submitted,

September 20, 2012

/Wan Yee Cheung/
Wan Yee Cheung
Attorney for Applicants
Reg. No. 42,410
Phone: 609-734-6834

U.S. Patent Operations
Thomson Licensing LLC
P.O. Box 5312
Princeton, New Jersey 08543-5312

Electronic Patent Application Fee Transmittal				
Application Number:		12450637		
Filing Date:		08-Apr-2010		
Title of Invention:		METHODS AND SYSTEMS FOR DISPLAYS WITH CHROMATIC CORRECTION WITH DIFFERING CHROMATIC RANGES		
First Named Inventor/Applicant Name:		Ingo Tobias Doser		
Filer:		Wan Yee Cheung		
Attorney Docket Number:		PU070106		
Filed as Large Entity				
U.S. National Stage under 35 USC 371 Filing Fees				
Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Extension - 3 months with \$0 paid	1253	1	1270	1270

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Total in USD (\$)				1270

Electronic Acknowledgement Receipt	
EFS ID:	13791005
Application Number:	12450637
International Application Number:	
Confirmation Number:	5743
Title of Invention:	METHODS AND SYSTEMS FOR DISPLAYS WITH CHROMATIC CORRECTION WITH DIFFERING CHROMATIC RANGES
First Named Inventor/Applicant Name:	Ingo Tobias Doser
Customer Number:	24498
Filer:	Wan Yee Cheung
Filer Authorized By:	
Attorney Docket Number:	PU070106
Receipt Date:	20-SEP-2012
Filing Date:	08-APR-2010
Time Stamp:	09:38:25
Application Type:	U.S. National Stage under 35 USC 371

Payment information:

Submitted with Payment	yes
Payment Type	Deposit Account
Payment was successfully received in RAM	\$1270
RAM confirmation Number	10124
Deposit Account	070832
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows: Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)	

File Listing:					
Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1		PU070106US_Amendment_Se p20-12.pdf	37087 585396b8c7c60ffa505c80e836a3cb90ee85eaa5	yes	7
	Multipart Description/PDF files in .zip description				
	Document Description		Start	End	
	Amendment/Req. Reconsideration-After Non-Final Reject		1	1	
	Claims		2	5	
	Applicant Arguments/Remarks Made in an Amendment		6	7	
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	30549 d61dfb05af8c210066a6f889d9258c3fb72f327f	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			67636		
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
12/450,637	04/08/2010	Ingo Tobias Doser	PU070106	5743
24498 7590 10/15/2012 Robert D. Shedd, Patent Operations THOMSON Licensing LLC P.O. Box 5312 Princeton, NJ 08543-5312			EXAMINER TEITELBAUM, MICHAEL E	
			ART UNIT 2422	PAPER NUMBER
			NOTIFICATION DATE 10/15/2012	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. **Claims 1-2 and 4-10 and 12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Spaulding et al. US 2005/0152612 hereinafter referred to as Spaulding.**

3. In regards to claim 1, Spaulding teaches:

4. ***"A method for color correcting, comprising: performing color correction on source picture content, using at least one of a non-reference type display having a non-reference color gamut and a reference type display having a reference color gamut"***

5. Spaulding teaches in paragraph [0015] and Figure 3 transforming images from an input color space to a reference color space. Spaulding teaches inputting a digital image from a first input color space 20 which is equivalent to a non-reference gamut. Spaulding teaches outputting an image in a reference color space 28. Spaulding teaches in paragraph [0016] that it is common for many digital images to have device dependent color spaces. Since it is well-known that color spaces are device dependent it would be known that this transformation would include color spaces from a non-reference and reference type displays.

6. Spaulding teaches:

7. *"wherein said performing step comprises: mastering the source picture content to provide mastered color corrected picture content for display on the reference type displays having a reference color gamut"*

8. Spaulding teaches in paragraph [0015] and Figure 3 that an algorithm is used to form an image in the reference color space. This is equivalent to mastering the image. Spaulding teaches that this algorithm **27** is applied to the input digital image in the reference color space **23** to form an output image in the reference color space **28**. If the output digital image is in the reference color space, then it is output for a reference-type display.

9. Spaulding teaches:

10. *"generating metadata for a subsequent inverse color gamut mapping that color transforms the mastered color corrected picture content for display on non-reference type displays having a non-reference color gamut"*

11. Spaulding teaches in paragraph [0015] and Figure 3 using an input color space identifier. In the broadest reasonable interpretation this is equivalent to generating metadata because metadata is data that contains information about other data. In this case, the data is the input image and the data containing information about the input image is the input color space identifier **24**. Therefore the input color space identifier **24** is equivalent to metadata. In paragraph [0019] Spaulding teaches that in some more complex cases an inverse color adjustment function must be applied that undoes the color adjustment function. Spaulding teaches that the color adjustment function performs color and tone transformations relating the

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original scene colorimetry for display on reference video displays. The Examiner interprets that after the color adjustment function is completed, the image can be considered to be “mastered.” Therefore, since the inverse color adjustment is performed after the color adjustment function, this is equivalent to a subsequent inverse color gamut mapping that color transforms the mastered color corrected picture content. Spaulding teaches in paragraph [0015] and Figure 3 that using the input color space identifier **24** the mastered image (output digital image in reference color space **28**) can be transformed to an output color space **30**. Spaulding teaches that sometimes it can be desirable to have the output color space to be the same as the input color space. Therefore, transforming the image from the reference color space back to the original color space using the identifier **24** is equivalent to performing an inverse transformation on the mastered image for display on the non-reference type display.

12. Spaulding teaches:

13. “wherein the metadata describes difference between colors of the non- reference type displays and the reference type displays”

14. Spaulding teaches in paragraph [0022] that the input color space identifier 24 is a piece of metadata that stores the various input color spaces. The color space identifier 24 indicates the color space of the non-reference type display and is together with the image in a reference color space 23. Therefore, the metadata i.e. input color space identifier 24 provides the color difference information between the two types of displays, because the image is in the reference space, therefore, only the input space is needed to determine the differences.

15. Spaulding teaches:

16. *"wherein the subsequent inverse color gamut mapping is an inverse operation of a color gamut mapping applied during the color correction to obtain the mastered color corrected picture content for display on the reference type displays having the reference color gamut, and the source picture content is mastered only for the reference type displays having the reference color gamut"*

17. Spaulding teaches in paragraph [0019] that the color adjustment function performs color and tone transformations relating the original scene colorimetry for display on reference video displays. Original scene colorimetry is equivalent to source picture content. Furthermore, since the inverse color adjustment is performed after the color adjustment function, this is equivalent to an inverse operation of a color gamut mapping applied during color correction.

18. Spaulding does not explicitly teach when each color gamut mapping is displayed on reference or non-reference type displays however Spaulding does teach in paragraph [0016] that there are various device dependent color spaces associated with various input and output devices. It would have been obvious for a person with ordinary skill in the art to know which color spaces can be rendered on reference or non-reference type displays because it is known that different color spaces are associated with certain devices and that certain devices may contain standard gamuts whereas others may contain extended gamuts.

19. **In regards to claim 2**, Spaulding teaches all the limitations of claim 1 and further teaches:

20. "wherein said step of mastering the source picture content comprises rendering the mastered color corrected picture content on the reference type display using a color gamut mapping that converts the source picture content for the non-reference type display to picture content for the reference type display"

21. Spaulding teaches in paragraph [0015] and Figure 3 that the input digital image is transformed to the reference color space **22** and image enhanced **27** and finally an output digital image in a reference color space **28** is created.

22. **In regards to claim 4**, Spaulding teaches all the limitations of claim 1 and further teaches:

23. "wherein the metadata is provided to the non-reference type displays for final consumption at least one of in-band and out-of-band with respect to the mastered color corrected picture content"

24. The terms "in-band" and "out-of-band" transmission merely mean transmitting the metadata either with or without the color corrected picture content. Therefore, since Spaulding teaches transmitting the metadata, i.e. input color space identifier **24** to the transform image to output color space **29**, which occurs after the color correction has taken place, this is equivalent to out-of-band transmission.

25. **In regards to claim 5**, Spaulding teaches all the limitations of claim 1 and further teaches:

26. *"wherein the reference type displays and the non-reference type displays are at least one of liquid crystal displays, plasma displays, cathode ray tube displays, digital light processing displays, organic light emitting diode displays, liquid crystal on silicon displays, and direct drive image light amplifier displays"*

27. Spaulding teaches using a CRT display in paragraph [0016] as well as video displays in paragraph [0019]. Furthermore, it would be obvious to one of ordinary skill to use these types of displays for reference and non-reference displays as these are commonly known display types in the art.

28. **In regards to claim 6**, Spaulding teaches all the limitations of claim 1 and claim 6 contains the same limitations as claim 1. Therefore, claim 6 is rejected for the same limitations as claim 1.

29. **In regards to claim 7**, Spaulding teaches all the limitations of claim 6 and claim 7 contains the same limitations as claim 4. Therefore, claim 7 is rejected for the same reasoning as claim 4.

30. **In regards to claim 8**, Spaulding teaches all the limitations of claim 6 and claim 8 contains the same limitations as claim 5. Therefore, claim 8 is rejected for the same reasoning as claim 5.

31. **In regards to claim 9**, Spaulding teaches all the limitations of claim 1 and claim 9 contains the same limitations as claim 1. Therefore, claim 9 is rejected for the same limitations as claim 1.

32. **In regards to claim 10**, Spaulding teaches all the limitations of claim 9 and claim 10 contains the same limitations as claim 2. Therefore, claim 10 is rejected for the same reasoning as claim 2.

33. **In regards to claim 12**, Spaulding teaches all the limitations of claim 9 and claim 12 contains the same limitations as claim 4. Therefore, claim 12 is rejected for the same reasoning as claim 4.

34. **In regards to claim 13**, Spaulding teaches all the limitations of claim 9 and claim 13 contains the same limitations as claim 5. Therefore, claim 13 is rejected for the same reasoning as claim 5.

35. **Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Spaulding in view of HDMI Specification 1.3a hereinafter referred to as HDMI.**

36. **In regards to claim 3**, Spaulding teaches all the limitations of claim 1 and further teaches:

37. ***"inverse [color gamut mapping]"***

38. In paragraph [0019] Spaulding teaches that in some more complex cases an inverse color adjustment function must be applied that undoes the color adjustment function.

39. Spaulding does not explicitly teach:

40. ***"further comprising transmitting a specification of the
.... color gamut mapping to at least one of the non-reference
type displays for consumer consumption"***

41. Spaulding indicates in paragraph [0019] that the color gamut mapping can introduce artifacts when transforming between extended and standard ranges however doesn't explicitly

state that this can be alleviated through a metadata transmission of the gamut. However, this is well known in the art and is found in the HDMI 1.3a specification in Appendix E Gamut related Metadata. In Appendix E HDMI teaches that the xvYCC gamut is virtually unconstrained and that it is necessary for the video source to indicate the color gamut of the video and that the metadata allows the display to map the gamut of the video stream correctly. It would have been obvious for a person with ordinary skill in the art at the time of the invention to have modified Spaulding in view of HDMI to transmit metadata to the consumer device because this is included in the HDMI specification which one of ordinary skill understands must be adhered to for device to be compatible.

42. **In regards to claim 11**, Spaulding teaches all the limitations of claim 9 and claim 11 contains the same limitations as claim 3. Therefore, claim 11 is rejected for the same reasoning as claim 3.

Response to Arguments

43. Applicant's arguments filed 9/20/2012 have been fully considered but they are not persuasive.

44. In regards to Applicant's arguments concerning claims 1-13 Applicant argues that the claimed limitation "*wherein the metadata describes difference between colors of the non-reference type displays and the reference type displays*" is not taught by the cited references. However, the Examiner disagrees. Spaulding teaches in paragraph [0022] that the input color space identifier 24 is a piece of metadata that stores the various input color spaces. The color space identifier 24 indicates the color space of the non-reference type display and is together with the image in a reference color space 23. Therefore, the metadata i.e. input color space

identifier 24 provides the color difference information between the two types of displays, because the image is in the reference space, therefore, only the input space is needed to determine the differences. Furthermore, if the differences between the reference and non-reference spaces are not known then conversions and transformations between color spaces cannot be performed. Spaulding clearly teaches in various places that transformations between color spaces are made as well as inverse transformations to return back to the original color space. Knowing the input color space, i.e. the input color space identifier 24, makes this possible because it indicates the input color space so that a transformation can be made back to this color space without losing any information.

Conclusion

The Examiner has cited particular columns and line numbers or paragraphs in the references applied to the claims above for the convenience of the Applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the Applicant in preparing responses, to fully consider the references in their entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage taught by the prior art or disclosed by the Examiner.

In case of amending the claimed invention, the Applicant is respectfully requested to indicate portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

1. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **MICHAEL TEITELBAUM, Ph.D.** whose telephone number is (571)270-5996. The examiner can normally be reached on Monday thru Thursday 7:30AM to 6:00PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jefferey Harold can be reached on (571) 272-7519. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/MICHAEL TEITELBAUM, Ph.D./
Examiner, Art Unit 2422
/JEFFEREY HAROLD/
Supervisory Patent Examiner, Art Unit 2422

<i>Search Notes</i> 	Application/Control No. 12450637	Applicant(s)/Patent Under Reexamination DOSER ET AL.
	Examiner MICHAEL TEITELBAUM	Art Unit 2422

SEARCHED			
Class	Subclass	Date	Examiner
348	649	1/26/2011	MT

SEARCH NOTES		
Search Notes	Date	Examiner
Invnetor search in East	1/26/2011	MT
See attached East search history	1/26/2011	MT
See updated East search history	10/2/2012	MT

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner

/M.T./ Examiner.Art Unit 2422	
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EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	45	reference same (color space or gamut) same metadata	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	OFF	2012/10/02 12:48
S1	0	"12450637"	USPAT	OR	OFF	2012/01/26 11:16
S2	0	"12450637"	USPAT	ADJ	OFF	2012/01/26 11:17
S3	1	"12450637"	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:17
S4	1	"10757055"	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:24
S5	34	((INGO) near2 (DOSER)).INV.	US-PGPUB; USPAT	OR	OFF	2012/01/26 11:50
S6	36	((JURGEN) near2 (STAUDER)).INV.	US-PGPUB; USPAT	OR	OFF	2012/01/26 11:50
S7	16	((BONGSUN) near2 (LEE)).INV.	US-PGPUB; USPAT	OR	OFF	2012/01/26 11:50
S8	16	S6 or S7	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:50
S9	12	S8 and gamut	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:50
S10	6	S9 and inverse	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:50
S11	6	inverse gamut	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:51
S12	656	(extended or enhanced) near6 gamut	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:51
S13	12	S12 same inverse	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:51
S14	0	S12 same metadata	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:52
S15	8	S12 same identifier	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:52
S16	293	348/649.ccls.	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:55
S17	51	S16 and gamut	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:55
S18	25	S17 and inverse	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:55
S19	6	S16 and S12	US-PGPUB; USPAT	ADJ	OFF	2012/01/26 11:56
S20	1	"12450637"	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	OFF	2012/09/28 11:42

10/ 2/ 2012 1:19:55 PM**C:\Users\mteitelbaum\Documents\EAST\Workspaces\12450637.wsp**

