04/11/2011

RTMENT OF COMMERCE tent and Trademark Office

PATENT REFERENCE: 2008023000301		
, / RECOR		
3/24/11	103622071	
Name of conveying party(ies):	2. Name and address of receiving party(ies):	
David A. Fattal	- 1 - 1	
	HEWLETT-PACKARD DEVELOPMENT COMPANY, L P 11445 Compaq Center Drive West	
Charles M. Santori	Houston, TX 77070	
Marco Fiorentino		
Raymond G Beausoleil		
	Additional control and address (as) among all The Dec	
Additional name(s) of conveying party(ies) attached? Yes No	Additional name(s) and address(es) attached?  Yes No	
3. Nature of Conveyance:	CN	
SAssignment Segret Segret Segretary	of Name Security Agreement Joint	
Other		
Execution Date(s):12/12/08, 12/10/08, 12/9/08, 12/7/08		
4. Application number(s) or patent number(s):		
If this document is being filed together with a new application	on, execution date of the application is	
A. Patent Application No.(s)		
Application No. 13/119934 Date Filed	:	
Confirmation No.: B. Patent N	NO.(\$).	
Additional numbers attached? NO		
5. Name and address of party to whom correspondence	6. Total number of applications and patents involved: 1	
concerning document should be mailed:	7. Total Fee (37 CFR 3.41): \$40.00	
Records Manager	7. Total 1 66 (57 61 K 5.41)	
Intellectual Property Administration	Enclosed	
HEWLETT-PACKARD COMPANY	X_Authorization to be charged to deposit account.	
3404 E. Harmony Road Mail Stop 35	Deposit Account Number: 08-2025	
Fort Collins, Colorado 80528		
9. Statement and signature		
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.		
Copy of the drightal document.	S	
Debbie Syrmis	March 16, 2011	
Name of Person Signing Sign	nature Date	
Total number of pages including covershe	eet, attachments, and documents5_	
Decuments to be recorded final values and a	abouted be found to (571) 273 0140 as moded to	
Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450		
Page 1 of 1		
) DAA:		

Rev 06/10 (RecdAsgn)

Rev 10/06 (Assignment)

PATENT APPLICATION

200802300 ATTORNEY DOCKET NO.

#### **ASSIGNMENT OF PATENT APPLICATION**

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership having its principal place of business in Houston, Texas, (hereinafter HPDC), in furtherance of my/our obligations to the Hewlett-Packard Company and its subsidiaries and affiliates, and do hereby assign and transfer to HPDC, its successors and assigns, the entire right, title and interest, including the right of priority, in, to and under an application for Letters Patent of the United States entitled: SPATIAL LIGHT MODULATOR

Filing Date: 13/119934 Application No.: and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-I-P's), divisionals, and renewals of and substitutes for said application for said Letters Patent, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefore; and any reissues, or reexaminations, or extensions of said Letters Patent.

I/we additionally authorize HPDC to file applications in my/our name for Letters Patent in any country, to be held and enjoyed by HPDC, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, and transfer not been made;

AND I/we hereby covenant that I/we have full right to convey the entire interest herein assigned, and that I/ we have not executed and will not execute any agreement in conflict herewith, and I/we further covenant and agree that l/we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Letters Patent, to HPDC, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to HPDC, or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-P's, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to aid HPDC, its successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by HPDC;

AND I/we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to HPDC, as assignee of the entire right, title and interest, any and all Letters Patent for said invention(s) or improvement(s), including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

I/we further authorize and direct the attorneys of record to insert the serial number and filing date of said application now identified by the attorney docket number and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademark Office.

V	F, I/we hereunto set my/our hand(s)	•	
Inventor's Signature (Seal)	*	Date Assignment Signed	<u>&amp;</u>
David A. Fattal		12/12/2	25
Inventor's Typed Name		Date Application Signed	
State of	)		
	) ss.:		
County of	)		
Before me this day of	, personally appeared	David A. Fattal	who is personally
known or proved to me on the bassignment to be his/her free act	asis of satisfactory evidence to be thand deed.	e person who acknowledged the	foregoing instrument of
		Notary Public My Commission Expire	<b>3</b>
Day 1000 /Assumments	Page 1 of 2		

**REEL: 026147 FRAME: 0108** 

Rev 10/08 (Assignment)

## PATENT APPLICATION

# **ASSIGNMENT OF PATENT APPLICATION (cont.)**

Cumbo M. An	<b>龙</b> ,	12/10/08	
Inventor's Signature (Seal)		Date Assignment Signed	
•		12/10/08	
Charles M. Santori		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Inventor's Typed Name		Date Application Signed	
State of	)		
	) ss.:		
County of	)		
	normanih, nandatad	Charles M. Santori	who is personally
Before me thisday of	, personally appeared	the person who acknowledged the for	
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A.B		12/4/98	
Marco Florentino Inventor's Typed Name		Date Application Signed	
invertors typed warne		Data Ahliotton oillings	
State of	)		
	) ss.:		
County of	)		
Before me this day of	, personally appeared	Marco Fiorentino	who is personally
known or proved to me on the basi	s of satisfactory evidence to be	the person who acknowledged the fo	
assignment to be his/her free act and	deed.	Notary Public	
		My Commission Expires:	
Inventor's Signature (Seal)		Date Assignment Signed	
Raymond G. Beausoleil			
Inventor's Typed Name		Date Application Signed	
State of	)		
	) ss.:		
County of	)		
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Page 2 of 2

**REEL: 026147 FRAME: 0109** 

Rev 10/08 (Assignment)

ATTORNEY DOCKET NO. 200802300

### **ASSIGNMENT OF PATENT APPLICATION**

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD

Texas, (hereinafter HPDC), in fu subsidiaries and affiliates, and do h	urtherance of my/our obli ereby assign and transfer t	ip having its principal place of bus pations to the Hewlett-Packard C b HPDC, its successors and assign an application for Letters Patent of	company and its s, the entire right,
SPATIAL LIGHT MODULATOR			
Filing Date:	Aı	oplication No.: 13/1199	3.4
P's), divisionals, and renewals of all Patent of the United States and or reissues, or reexaminations, or extensives, or reexaminations, or extensive additionally authorize held and enjoyed by HPDC, its sucterms for which said Letters Patent same would have been held and en AND I/we hereby covenar we have not executed and will not that I/we will, each time a request in necessary or desirable to perfect the Patent, to HPDC, its successors, HPDC, or to its nominee, all known Letters Patent, to testify in any legal continuations, C-I-P's, reissue and do everything possible to aid HPI enforce, for its or their own benefic countries provided the expenses we paid by HPDC;  AND I/we hereby authorize and any official of any country of applications as aforesaid, to issue Patent for said invention(s) or improbe issued and granted on or as a real plication now identified by the abeen made known to them by the LIN WITNESS WHEREOF, I/w	nd substitutes for said applif countries foreign thereto ensions of said Letters Pate HPDC to file applications in cessors, assigns, nominees trespectively may be grantally by me/us had this as in that I/we have full right to execute any agreement in a smade, and without undue the title to said invention(s) assigns, nominees or legan facts respecting said invention are in the foreign applications, to made, it successors, assignst, proper patent protection which may be incurred by note and request the Commission countries foreign to the to HPDC, as assignee of rovement(s), including any esult of the application afored direct the attorneys of reductioney docket number and	my/our name for Letters Patent in a or legal representatives, to the full ed, reissued or extended, as fully a signment, and transfer not been made convey the entire interest herein as conflict herewith, and I/we further conflict herewith, and I/we application or improvement(s), said application representatives, and I/we agree to intion(s) or improvement(s), said applications of improvement(s), said application and interest and legal representatives and legal representatives and invention(s) or improvement selus in lending such cooperation and interest and Trademarks of United States whose duty it is to the entire right, title and interest, and all Letters Patent of the United said, in accordance with the terms of coord to insert the serial number and title set forth above as soon as the ademark Office.  s) and seal(s):	any and all Letters herefore; and any country, to be end of the term or nd entirely as the de; signed, and that I/venant and agree papers as may be a and said Letters o communicate to plication and said rs and divisionals, and generally to ves to obtain and t(s) in any and all nd assistance are the United States issue patents on ny and all Letters States which may if this assignment. filling date of said
Inventor's Signature (Seal)		Date Assignment Signed	
David A. Fattal		Data Application Signed	
Inventor's Typed Name		Date Application Signed	
State of	) ) ss		
County of	)		
***************************************	, personally appeared	David A Fattal	who is personall
known or proved to me on the basis assignment to be his/her free act and d		the person who acknowledged the form  Notary Public  My Commission Expires	egoing instrument o
		INIA COURTINESTING EXTERES	

Page 1 of 2

#### PATENT APPLICATION

ATTORNEY DOCKET NO. 200

200802300

# **ASSIGNMENT OF PATENT APPLICATION (cont.)**

### IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):

Inventor's Signature (Seal)		Date Assignment Signed	
Charles M Santon			
Inventor's Typed Name		Date Application Signed	
State of	) ) ss.:		
County of	)		
Before me this day of	, personally appeared	Charles M. Santori	who is personally
known or proved to me on the be assignment to be his/her free act a	isis of satisfactory evidence to be and deed.	the person who acknowledged the t	oregoing instrument of
•		Notary Public My Commission Expires	
Inventor's Signature (Seal)		Date Assignment Signed	ant a requirement of the state
Marco Fiorentino		Data Asshatian Cinard	11
Inventor's Typed Name		Date Application Signed	
State of	) ) ss.:		
County of	)		
Before me this day of	, personally appeared	Marco Fiorentino the person who acknowledged the	who is personally forecoing instrument of
assignment to be his/her free act a			
		Notary Public  My Commission Expires	
languar (50	Leesteld	Date Assignment Signed	08
Inventor's Signature (Seal)			
Raymond G. Beausoleil		14/07/	० ८
Inventor's Typed Name		Date Application Signed	
State of	)		
County of	) ss.:		
Before me thisday of	personally appeared	Raymond G. Beausoleil	who is personally
known or proved to me on the b assignment to be his/her free act a		the person who acknowledged the	foregoing instrument of
		Notary Public	
Rev 10/08 (Assignment)	Page 2 of 2	My Commission Expires	

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PATENT REEL: 026147 FRAME: 0111

RECORDED: 03/24/2011