

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
LORNE A. WHITEHEAD	07/06/2005
HELGE SEETZEN	07/07/2005
WOLFGANG HEIDRICH	07/11/2005
GREGORY JOHN WARD	07/27/2005
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE UNIVERSITY OF BRITISH COLUMBIA
<b>Street Address:</b>	103 - 6190 AGRONOMY ROAD
<b>Internal Address:</b>	UNIVERSITY-INDUSTRY LIAISON OFFICE
<b>City:</b>	VANCOUVER, BC
<b>State/Country:</b>	CANADA
<b>Postal Code:</b>	V6T 1Z3
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15283575
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(604)681-4081
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	(604)669-3432
<b>Email:</b>	gkuroyama@patentable.com
<b>Correspondent Name:</b>	DOLBY LABORATORIES LICENSING CORPORATION
<b>Address Line 1:</b>	C/O OYEN WIGGS GREEN & MUTALA LLP
<b>Address Line 2:</b>	480 - THE STATION, 601 W. CORDOVA ST.
<b>Address Line 4:</b>	VANCOUVER, CANADA V6B 1G1
<b>ATTORNEY DOCKET NUMBER:</b>	B634 0413/GNM
<b>NAME OF SUBMITTER:</b>	GAVIN N. MANNING
<b>SIGNATURE:</b>	/GavinNManning/
<b>DATE SIGNED:</b>	10/21/2016
<b>Total Attachments: 3</b>	

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source=Assignment - inventors to UBC (11731200x9EE5F)#page3.tif

**PATENT ASSIGNMENT**

WHEREAS WE,

**LORNE A. WHITEHEAD**  
3015 West 12<sup>th</sup> Avenue  
Vancouver, British Columbia  
Canada V6K 2R4

**HELGE SEETZEN**  
5432 Duquette Street  
Montreal, Quebec  
Canada H4A 1J6

**WOLFGANG HEIDRICH**  
3107-1068 Hornby Street  
Vancouver, British Columbia  
Canada V6Z 2Y7

**GREGORY JOHN WARD**  
1200 Dartmouth Street, #C  
Albany, California 94706  
USA

(collectively, the "Assignors"), whose full post office addresses are as above, are the inventors of certain inventions or improvements described and claimed in Patent Cooperation Treaty international patent application No. PCT/CA2005/000807 filed 27 May 2005 and entitled:

**RAPID IMAGE RENDERING ON DUAL-MODULATOR DISPLAYS**

AND WHEREAS, THE UNIVERSITY OF BRITISH COLUMBIA, (the "Assignee"), whose full post office address is Industry Liaison Office, 103 - 6190 Agronomy Road, Vancouver, British Columbia, V6T 1Z3, Canada, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements, and in and to the said application, and in, to and under all Letters Patent which may be granted on or as a result thereof in all countries;

NOW THEREFORE, in consideration of ONE (\$1.00) DOLLAR and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, WE, the Assignors, hereby assign to the Assignee all right, title and interest in and to the said inventions or improvements and said application, and all continuations, divisions, renewals of or substitutes for said application, and in, to and under all Letters Patent which may be granted on or as a result thereof, and any reissue or reissues of said Letters Patent; and WE assign to and authorize the Assignee to file in my name applications for Letters Patent for said inventions or improvements in all countries, the same to be held and enjoyed by the Assignee, 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, had this assignment not been made;

AND WE hereby covenant that WE have full right to convey the entire interest herein assigned, and that WE have not executed and will not execute any agreement in conflict herewith, and WE further covenant and agree that WE will, each time 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 inventions or improvements, said application and said Letters Patent, in the Assignee, its successors, assigns, nominees or legal representatives, and WE agree to communicate to the Assignee, or its nominees, all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid the Assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit, proper patent protection

for said inventions or improvements in all countries, all at the expense, however, of the Assignee or its successors, assigns, nominees or legal representatives;

AND WE hereby authorize and request the officials of all countries whose duty it is to issue patents on applications as aforesaid, to issue to the Assignee, as assignee of the entire right, title and interest, all Letters Patent for said inventions or improvements, which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this Assignment.

EXECUTED at Vancouver, BC, Canada this 6<sup>th</sup>  
day of July, 2005.  
(month) (city) (province/state) (country) (date)

SIGNED, SEALED & DELIVERED  
by LORNE A. WHITEHEAD  
in the presence of:

Sue Mulligan  
Signature of Witness

Sue Mulligan  
Print Witness's Name

2724 Caroline St  
Vancouver BC  
V5T 3T2  
Print Witness's Address

Administrative Assistant  
Print Witness's Occupation

[Signature]  
LORNE A. WHITEHEAD

EXECUTED at Vancouver, BC, Canada this 7 day of  
July, 2005.  
(month) (city) (province/state) (country) (date)

SIGNED, SEALED & DELIVERED  
by HELGE SEETZEN  
in the presence of:

Valerie Ball  
Signature of Witness

Valerie Ball  
Print Witness's Name


4089 W 28 Ave  
Vancouver, BC  
Print Witness's Address

Patent Secretary  
Print Witness's Occupation

[Signature]  
HELGE SEETZEN

EXECUTED at Vancouver, BC, Canada this 11<sup>th</sup> day of  
July, 2005. (month) (city) (province/state) (country) (date)

SIGNED, SEALED & DELIVERED  
by **WOLFGANG HEIDRICH**  
in the presence of:

  
Signature of Witness

MATTHEW TRENTACOSTE  
Print Witness's Name

303-275 E 13th Ave  
VANCOUVER BC V5T 2K3  
CANADA  
Print Witness's Address

GRADUATE STUDENT  
Print Witness's Occupation

  
WOLFGANG HEIDRICH

EXECUTED at Albany, California, USA this 27 day of  
July, 2005. (month) (city) (province/state) (country) (date)

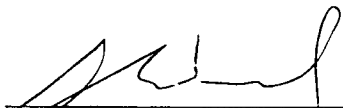
SIGNED, SEALED & DELIVERED  
by **GREGORY JOHN WARD**  
in the presence of:

  
Signature of Witness

Tessala Larson  
Print Witness's Name

779 Creston Rd.  
Berkeley CA 94708  
Print Witness's Address

Student  
Print Witness's Occupation

  
GREGORY JOHN WARD