

6-2-99  
06-18-1999

IEET

File No.: U0080408

101071808

To the Honourable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

<b>1. Name of conveying party(ies):</b> Lorne A. Whitehead Dmitri Nikolaevich Grandmaison Robin John Noel Coope Michele Ann Mossman Andrzej Kotlicki Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>2. Name and address of receiving party(ies):</b>  Name: The University of British Columbia  Street Address: Room 331 IRC Building 2194 Health Sciences Mall  City: Vancouver  Province: British Columbia  Country: Canada  Postal Code: V6T 1Z3  Additional name(s) and address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>3. Nature of Conveyance:</b>  <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger  <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name  <input type="checkbox"/> Other _____  Execution Date: 1 June, 1999	

10503 U.S. PTO  
09/324103  
06/02/99

**4. Application number(s) or patent number(s):**

If this document is being filed together with a new application, the execution date of the application is: 1 June, 1999

A. Patent Application No.(s)

B. Patent No.(s)

69324 103

Additional numbers attached? ☐ Yes ☒ No

<b>5. Name and address of party to whom correspondence concerning document should be mailed:</b>  Name: OYEN WIGGS GREEN & MUTALA  Address: Suite 480 - The Station 601 West Cordova Street Vancouver, British Columbia CANADA V6B 1G1  Tel.: (604) 669-3432 Fax: (604) 681-4081	<b>6. Total no. of applications and patents involved:</b> [1]  <b>7. Total fee (37 CFR 3.41)</b> \$ <u>40.00</u>  <input checked="" type="checkbox"/> Enclosed  <input type="checkbox"/> Authorized to be charged to deposit account  <b>8. Deposit Account Number:</b> _____ (Attach copy of this page if paying by deposit account)
---	--

DO NOT USE THIS SPACE

**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.

Blake R. Wiggs, Regn. No. 29,505  
Name of Person Signing

  
Signature

1 June, 1999  
Date

Total Number of pages including cover sheet, attachments, and document: [4]

06/15/1999 PALLN 00000067 09324103

04 FC:581

40.00 0P

PATENT  
REEL: 010025 FRAME: 0889

**ASSIGNMENT**

WHEREAS WE, Lorne A. Whitehead; Dmitri Nikolaevich Grandmaison; Robin John Noel Coope; Michele Ann Mossman; and, Andrzej Kotlicki (hereinafter collectively called the "Assignors"), whose full post office addresses are respectively 3015 West 12th Avenue, Vancouver, British Columbia, Canada V6K 2R4; Suite 303 - 8165 Laurel Street, Vancouver, British Columbia, Canada V6P 3V2; 4635 Bellevue Drive, Vancouver, British Columbia, Canada V6R 1E7; 2639 West 5th Avenue, Vancouver, British Columbia, Canada V6K 1T2; and, 4508 West 12th Avenue, Vancouver, British Columbia, Canada V6R 2R5 are the inventors of certain inventions or improvements described and claimed in the application for United States Letters Patent executed concurrently herewith and entitled:

**ELECTROPHORETIC, HIGH INDEX AND PHASE TRANSITION  
CONTROL OF TOTAL INTERNAL REFLECTION IN HIGH EFFI-  
CIENCY VARIABLE REFLECTIVITY IMAGE DISPLAYS**

AND WHEREAS, The University of British Columbia, (hereinafter called the "Assignee") whose full post office address is c/o Industry Liaison Office, Room 331 IRC Building, 2194 Health Sciences Mall, Vancouver, British Columbia, Canada V6T 1Z3 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 any and all Letters Patent which may be granted on or as a result thereof in any and all countries;


NOW THEREFORE, in consideration of the sum of ONE (\$1.00) DOLLAR and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, WE, the Assignors, do hereby, both jointly and severally, sell, assign, transfer and set over to the Assignee the entire right, title and interest in and to the said inventions or improvements and said application, and any and all continuations, divisions, renewals of or substitutes for said application, and in, to and under any and 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 our names 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, re-issued or extended, as fully and entirely as the same would have been held and enjoyed by us, had this assignment, sale and transfer 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,

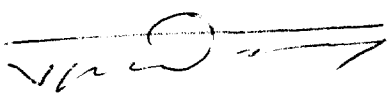
reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid the Assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit, proper patent protection for said inventions or improvements in any and 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 Commissioner of Patents and Trademarks of the United States of America and any official of any country or countries foreign to the United States of America 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, any and 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, B.C., Canada this 1 day of June, 1999.

  
Lorne A. Whitehead

EXECUTED at Vancouver, B.C., Canada this 1 day of June, 1999.

  
Dmitri Nikolaevich Grandmaison

EXECUTED at Vancouver, B.C., Canada this 1st day of June, 1999.

  
Robin John Noel Coope

EXECUTED at Vancouver, B.C., Canada this 1 day of June, 1999.

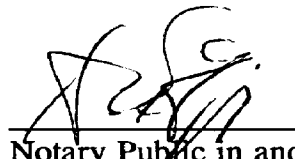
  
Michele Ann Mossman

EXECUTED at Vancouver, B.C., Canada this 1 day of June, 1999.

  
Andrzej Kotlicki

NOTARIAL CERTIFICATES

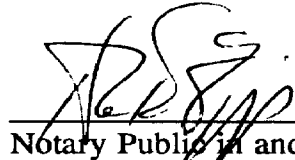
On this 1<sup>ST</sup> day of June, 1999 before me, personally appeared Lorne A. Whitehead, known to me to be one of the individuals who executed the foregoing instrument, and who acknowledged to me that he executed the same of his own free will and for the purpose therein set forth.



BLAKE R. WIGGS  
Barrister & Solicitor  
480-601 West Cordova St.  
VANCOUVER, B.C. V6B 1G1

Notary Public in and for the Province of  
British Columbia, Canada.  
My Commission is for life.

On this 1<sup>ST</sup> day of June, 1999 before me, personally appeared Dmitri Nikolaevich Grandmaison, known to me to be one of the individuals who executed the foregoing instrument, and who acknowledged to me that he executed the same of his own free will and for the purpose therein set forth.



BLAKE R. WIGGS  
Barrister & Solicitor  
480-601 West Cordova St.  
VANCOUVER, B.C. V6B 1G1

Notary Public in and for the Province of  
British Columbia, Canada.  
My Commission is for life.

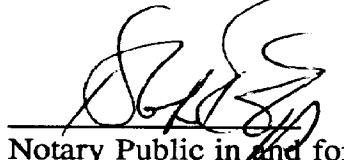
On this 1<sup>ST</sup> day of June, 1999 before me, personally appeared Robin John Noel Coope known to me to be one of the individuals who executed the foregoing instrument, and who acknowledged to me that he executed the same of his own free will and for the purpose therein set forth.



BLAKE R. WIGGS  
Barrister & Solicitor  
480-601 West Cordova St.  
VANCOUVER, B.C. V6B 1G1

Notary Public in and for the Province of  
British Columbia, Canada.  
My Commission is for life.

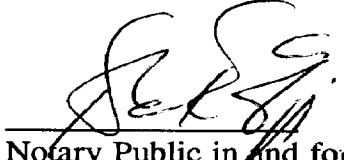
On this 1<sup>ST</sup> day of June, 1999 before me, personally appeared Michele Ann Mossman known to me to be one of the individuals who executed the foregoing instrument, and who acknowledged to me that she executed the same of her own free will and for the purpose therein set forth.



BLAKE R. WIGGS  
Barrister & Solicitor  
480-601 West Cordova St.  
VANCOUVER, B.C. V6B 1G1

Notary Public in and for the Province of  
British Columbia, Canada.  
My Commission is for life.

On this 1<sup>ST</sup> day of June, 1999 before me, personally appeared Andrzej Kotlicki known to me to be one of the individuals who executed the foregoing instrument, and who acknowledged to me that he executed the same of his own free will and for the purpose therein set forth.



BLAKE R. WIGGS  
Barrister & Solicitor  
480-601 West Cordova St.  
VANCOUVER, B.C. V6B 1G1

Notary Public in and for the Province of  
British Columbia, Canada.  
My Commission is for life.