

12-31-2002



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U.S. DEPARTMENT OF COMMERCE -Patent and Trademark Office (Text Modified) Atty Docket No. 3826.02 (ALJ)

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

9-26-02

1. Name of conveying party(ies):

- 1. STEVEN WARR
2. KIM LEONG TAN
3. WILLIAM CROSSLAND
4. ILIAS MANOLIS
5. MAURA REDMOND
6. TIMOTHY WILKINSON
7. MELANIE HOLMES
8. BRIAN ROBERTSON

Additional name(s) of conveying party(ies) attached? [] Yes [X] No

2. Name and address of receiving party(ies):

Name: THOMAS SWAN & CO. LTD

Street Address: Crookhall, Consett Co. Durham DH8 7ND United Kingdom

3. Nature of conveyance:

- [X] Assignment [] Merger
[] Security Agreement [] Change of Name
[] Other

Additional name(s) & address(es) attached? [] Yes [X] No

- Execution Date: 1. APRIL 20, 2002
2. SEPTEMBER 20, 2002
3. MARCH 15, 2002
4. MARCH 19, 2002
5. MARCH 19, 2002
6. MARCH 15, 2002
7. MARCH 15, 2002
8. MARCH 15, 2002

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:

- A. Patent Application No.(s) 10/110,031
B. Patent No.(s)

Additional numbers attached? [] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: ALLSTON L. JONES PETERS VERNY JONES & SCHMITT, L.L.P.

Street Address: 385 Sherman Avenue, Suite 6

10/03/2002 MKAYPAGH 00000087 10110031

02 F0:581 40.00 DP City: Palo Alto State: CA ZIP:94306-1840

6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 3.41) \$ 40.00

[X] Authorized to be charged to deposit account

8. Deposit account number:

16-1331 (Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement of 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.

ALLSTON L. JONES (Reg. 27,906) Name of Person Signing

Handwritten signature of Allston L. Jones

September 26, 2002 Date

Total number of pages comprising cover sheet: [1]

ASSIGNMENT

Attorney Docket No. 3826 02

WHEREAS, I/We, a named inventor of the below identified patent application

- | | |
|------------------------------|------------------------------|
| 1. <u>WARR, Steven</u> | 2. <u>TAN, Kim, Leong</u> |
| 3. <u>CROSSLAND, William</u> | 4. <u>MANOLIS, Ilias</u> |
| 5. <u>REDMOND, Maura</u> | 6. <u>WILKINSON, Timothy</u> |
| 7. <u>HOLMES, Melanie</u> | 8. <u>ROBERTSON, Brian</u> |

And

Thomas Swan & Co. Ltd. a company incorporated in the United Kingdom having its principal place of business located at Crookhall, Consett, Co. Durham. DH8 7ND, United Kingdom hereinafter called the Assignee;

NOW, THEREFORE, I/we the named inventor(s) for good and valuable consideration, receipt of which is hereby acknowledged, we each do hereby sell, assign and transfer unto the Assignee, its successors and assigns, the entire title, interest and right, including the right of priority, in, to and under an application for Letters Patent of the United States for Improvements in:

OPTICAL SWITCHING WITH FERROELECTRIC LIQUID CRYSTAL SLMS

and the inventions and any of them therein set forth and described, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor in (check one)

- (a) _____ U.S. patent application entitled as above and listing the above named person(s) as inventor(s) and filed herewith.
- (b) X _____ U.S. application serial no. 10/110,031, Filed on April 3, 2002
- (c) _____ U.S. Patent No.: _____, issued _____

And for the above consideration we each agree promptly upon request of the assignee, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application whether original, continuation, continuation in part, divisional or reissue, or other papers which may be necessary or desirable fully to secure to the Assignee, its successors and assigns, the inventions and any of them described in said application and all patent rights therein, in the United States, and to cooperate and assist in the prosecution of interference proceedings involving said inventions and in the adjudication of said Letters Patent provided the expenses which may be incurred by me in lending such cooperation and assistance be paid by the Assignee.

IN WITNESS WHEREOF, I, WARR, Steven hereunto set my hand and seal

this _____ day of _____, 2002.

at _____ (city)

_____ (country)

IN WITNESS WHEREOF, I, TAN, Kim, Leong hereunto set my hand and seal

this _____ day of _____, 2002.

at _____ (city)

_____ (country)

IN WITNESS WHEREOF, I, CROSSLAND, William hereunto set my hand and seal

this 15th day of March, 2002.

William Crossland

at Cambridge (city)

UK (country)

IN WITNESS WHEREOF, I, MANOLIS, Ilias hereunto set my hand and seal

this 19th day of March, 2002.

Ilias Manolis

at Cambridge (city)

UK (country)

IN WITNESS WHEREOF, I, REDMOND, Maura hereunto set my hand and seal

this 19 day of March, 2002.

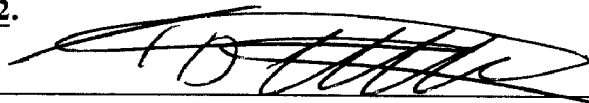
MAURA REDMOND

at Cambridge (city)

UK (country)

IN WITNESS WHEREOF, I, WILKINSON, Timothy hereunto set my hand and seal

this 15th day of March, 2002.



at CAMBRIDGE (city)

UK (country)

IN WITNESS WHEREOF, I, HOLMES, Melanie hereunto set my hand and seal

this 15th day of March, 2002.

Melanie Holmes

at Cambridge (city)

UK (country)

IN WITNESS WHEREOF, I, ROBERTSON, Brian hereunto set my hand and seal

this 15th day of March, 2002.

Brian Robertson

at Cambridge (city)

UK (country)

ASSIGNMENT

Attorney Docket No. 3826.02

WHEREAS, I/We, a named inventor of the below identified patent application

- | | |
|------------------------------|------------------------------|
| 1. <u>WARR, Steven</u> | 2. <u>TAN, Kim, Leong</u> |
| 3. <u>CROSSLAND, William</u> | 4. <u>MANOLIS, Ilias</u> |
| 5. <u>REDMOND, Maura</u> | 6. <u>WILKINSON, Timothy</u> |
| 7. <u>HOLMES, Melanie</u> | 8. <u>ROBERTSON, Brian</u> |

And

Thomas Swan & Co. Ltd. a company incorporated in the United Kingdom having its principal place of business located at Crookhall, Consett, Co. Durham. DH8 7ND, United Kingdom hereinafter called the Assignee;

NOW, THEREFORE, I/we the named inventor(s) for good and valuable consideration, receipt of which is hereby acknowledged, we each do hereby sell, assign and transfer unto the Assignee, its successors and assigns, the entire title, interest and right, including the right of priority, in, to and under an application for Letters Patent of the United States for Improvements in:

OPTICAL SWITCHING WITH FERROELECTRIC LIQUID CRYSTAL SLMS

and the inventions and any of them therein set forth and described, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor in (check one)

- (a) _____ U.S. patent application entitled as above and listing the above named person(s) as inventor(s) and filed herewith.
- (b) X U.S. application serial no. 10/110,031, Filed on April 3, 2002
- (c) _____ U.S. Patent No.: _____, issued _____

And for the above consideration we each agree promptly upon request of the assignee, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application whether original, continuation, continuation in part, divisional or reissue, or other papers which may be necessary or desirable fully to secure to the Assignee, its successors and assigns, the inventions and any of them described in said application and all patent rights therein, in the United States, and to cooperate and assist in the prosecution of interference proceedings involving said inventions and in the adjudication of said Letters Patent provided the expenses which may be incurred by me in lending such cooperation and assistance be paid by the Assignee.

IN WITNESS WHEREOF, I, WARR, Steven hereunto set my hand and seal

this 20 day of APRIL, 2002.

Stephen Warr

at READING (city)

UK (country)

IN WITNESS WHEREOF, I, TAN, Kim, Leong hereunto set my hand and seal

this _____ day of _____, 2002.

at _____ (city)

_____ (country)

IN WITNESS WHEREOF, I, CROSSLAND, William hereunto set my hand and seal

this _____ day of _____, 2002.

at _____ (city)

_____ (country)

IN WITNESS WHEREOF, I, MANOLIS, Ilias hereunto set my hand and seal

this _____ day of _____, 2002.

at _____ (city)

_____ (country)

IN WITNESS WHEREOF, I, REDMOND, Maura hereunto set my hand and seal
this _____ day of _____, 2002.

at _____ (city)
_____ (country)

IN WITNESS WHEREOF, I, WILKINSON, Timothy hereunto set my hand and seal
this _____ day of _____, 2002.

at _____ (city)
_____ (country)

IN WITNESS WHEREOF, I, HOLMES, Melanie hereunto set my hand and seal
this _____ day of _____, 2002.

at _____ (city)
_____ (country)

IN WITNESS WHEREOF, I, ROBERTSON, Brian hereunto set my hand and seal
this _____ day of _____, 2002.

at _____ (city)
_____ (country)

ASSIGNMENT

Attorney Docket No. 3821.02

WHEREAS, I/We, a named inventor of the below identified patent application

- | | |
|------------------------------|------------------------------|
| 1. <u>WARR, Steven</u> | 2. <u>TAN, Kim, Leong</u> |
| 3. <u>CROSSLAND, William</u> | 4. <u>MANOLIS, Ilias</u> |
| 5. <u>REDMOND, Maura</u> | 6. <u>WILKINSON, Timothy</u> |
| 7. <u>HOLMES, Melanie</u> | 8. <u>ROBERTSON, Brian</u> |

And

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and the inventions and any of them therein set forth and described, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor in (check one)

- (a) _____ U.S. patent application entitled as above and listing the above named person(s) as inventor(s) and filed herewith.
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IN WITNESS WHEREOF, I, WARR, Steven hereunto set my hand and seal

this _____ day of _____, 2002.

at _____ (city)

_____ (country)

IN WITNESS WHEREOF, I, TAN, Kim, Leong hereunto set my hand and seal

this 20th day of September, 2002.

Kim Leong

at Sunnyvale, CA (city)

USA (country)

IN WITNESS WHEREOF, I, CROSSLAND, William hereunto set my hand and seal

this _____ day of _____, 2002.

at _____ (city)

_____ (country)

IN WITNESS WHEREOF, I, MANOLIS, Ilias hereunto set my hand and seal

this _____ day of _____, 2002.

at _____ (city)

_____ (country)