12-31-2002

O Rec'd PCT/PTO 2 6 SEP 2002

RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE -Patent and Trademark Office (Text Modified)

Atty. Docket No. 3826.02 (ALJ)

| 102324964 | PATENTS ONLY | |
|--|---|---|
| To the Honora | able Commissioner of Patents and Trademarks: the attached original documents or copy thereof. | .24.02 |
| 1. Name of conveying party(ies): | 2. Name and address of receiving party(ies): | |
| STEVEN WARR KIM LEONG TAN | Name:THOMAS SWAN & CO. LTD | |
| 3. WILLIAM CROSSLAND 4. ILIAS MANOLIS 5. MAURA REDMOND 6. TIMOTHY WILKINSON 7. MELANIE HOLMES 8. BRIAN ROBERTSON | Street Address: Crookhall, Consett Co. Durham DH8 7ND United Kingdom | |
| Additional name(s) of conveying party(ies) attached? [[Yes [X] No | | |
| 3. Nature of conveyance: | | |
| [X] Assignment [] Merger [] Security Agreement [] Change of Name | Additional name(s) & address(es) attached? []Yes [X] No | |
| 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 ex. A. Patent Application No.(s) B. | Patent No.(s) | |
| A. Patent Application No.(s) D. | | |
| | ional numbers attached? [] Yes [X] No | |
| Name and address of party to whom correspondence concerning document should be mailed: | 6. Total number of applications and patents involved: [1] | |
| Name: ALLSTON L. JONES PETERS VERNY JONES & SCHMITT, L.L.P | 7. Total fee (37 CFR 3.41) \$ 40.00 | |
| Street Address: 385 Sherman Avenue, Suite 6 | [X] Authorized to be charged to deposit account | |
| /2002 MKAYPAGH 00000087 10110031 | Deposit account number: | |
| :581 40.00 0F City: Palo Alto State: CA ZIP:94306-1840 | (Attach duplicate copy of this page if paying by | de sosit account) |
| | OO NOT USE THIS SPACE | |
| 9. Statement of Signature To the best of my knowledge and belief, the foregoing it ALLSTON L. JONES (Reg. 27,906) | information is quelina correct and any attached copy is a true copy of | f t. e original document. S. ptember 26, 2002 E tte |
| Name of Person Signing | Skenature* Total number of 1 | Date as comprising cover she |

PATENT REEL: 013322 FRAME: 0679

ASSIGNMENT

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

Attorney Docket No. 3826 02

| | | | * * * | |
|-------|--|--|---|-----|
| 1. | WARR, Steven | 2. | TAN, Kim, Leong | |
| 3. | CROSSLAND, William | 4. | MANOLIS, Ilias | |
| 5. | REDMOND, Maura | 6. | WILKINSON, Timothy | |
| 7. | HOLMES, Melanie | 8. | ROBERTSON, Brian | |
| And | | | | |
| | ess located at Crookhall, Consett, Co. | | ted Kingdom having its principal place D, United Kingdom hereinafter called t | |
| and a | is hereby acknowledged, we each do h | ereby sell, assign an right, including the | good and valuable consideration, receipted transfer unto the Assignee, its successor right of priority, in, so and under ents in: | ors |
| OPTI | CAL SWITCHING WITH FERROELE | ECTRIC LIQUID C | RYSTAL SLMS | |
| | he inventions and any of them therein d States and of countries foreign thereto | | bed, and any and all Letters Patent of t | he |
| (a) | U.S. patent applicat inventor(s) and filed | | e and listing the above named person(s) | as |
| (b) _ | U.S. application seri | ial no. 10 110, 03 | , Filed on April 3, Zinz | |
| (c) | U.S. Patent No.: | | heirzi | |

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, | hereunto set my hand | and seal | |
|--------|-------------------------------|--------------------------|--------------------------|----------|
| this _ | day of | <u>, 2002</u> . | | |
| ıt | (city) | | | |
| | (countr | y) | | |
| | IN WITNESS WHEREOF, | I, TAN, Kim, Leong | hereunto set my hand | and seal |
| his _ | day of | , 2002. | | |
| t | (city) | | | |
| | (country |) | | |
| | | | liam hereunto set my han | and seal |
| his _ | 15th day of Mary | , 2002. | illian (wished | |
| t | Controlle (city) | | | |
| | Controlle (city) 44 (country | ·) | | |
| | IN WITNESS WHEREOF, | I, <u>MANOLIS, Ilias</u> | hereunto set my hanc | and seal |
| his _ | 19th day of Warch | <u>, 2002</u> . | llan hall | |
| | Combridge (city) | | | |
| at | Country (city) | v) | | |

| IN WITNE | SS WHEREOF, I, REDMOND, Maura hereunto set my hand and seal |
|-------------------------------|--|
| this <u> day</u> day d | or <u>Mucch</u> , 2002. |
| | MARIER RESMOND. |
| at <u>Cambod</u> UK | (city) (country) |
| | SS WHEREOF, I, WILKINSON, Timothy hereunto set my hand and seal of March, 2002. |
| ut <u>CAMBRID</u> | (city) (country) |
| | SS WHEREOF, I, HOLMES, Melanie hereunto set my hand and seal of March , 2002. Melane Holmes |
| ut Cambridge UK | (city) (country) |
| | SS WHEREOF, I, ROBERTSON, Brian hereunto set my hand and seal of March, 2002. Brian Robertson |
| at <u>Cambrid</u> UK | (country) |

ASSIGNMENT

Attorney Docket No. 3826, 02

| WHEREAS, I/We, a named inventor of the below identified patent applicati | ion |
|---|---|
| 1. WARR, Steven 2. TAN, Kim, Leong | <u> </u> |
| 3. CROSSLAND, William 4. MANOLIS, Ilias | |
| 5. REDMOND, Maura 6. WILKINSON, Tir | moth · |
| 7. HOLMES, Melanie 8. ROBERTSON, Br | rian |
| And | |
| Thomas Swan & Co. Ltd. a company incorporated in the United Kingdom having business located at Crookhall, Consett, Co. Durham. DH8 7ND, United Kingdom Assignee; NOW, THEREFORE, I/we the named inventor(s) for good and valuable co | hereinafter called the |
| which is hereby acknowledged, we each do hereby sell, assign and transfer unto the and assigns, the entire title, interest and right, including the right of priority, application for Letters Patent of the United States for Improvements in: | Assignee, its successors in, to and under an |
| OPTICAL SWITCHING WITH FERROELECTRIC LIQUID CRYSTAL SLMS | |
| and the inventions and any of them therein set forth and described, and any and al United States and of countries foreign thereto which may be granted thereon or there | Il Lesters Patent of the efor in (check one) |
| (a) U.S. patent application entitled as above and listing the about inventor(s) and filed herewith. | ove ramed person(s) as |

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, as signment, 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.

(b) X

U.S. application serial no.10/110,031, Filed on April 3, 2002

U.S. Patent No.: ______, issued ______

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| | IN WITNESS W | HEREOF, I, <u>WARR, S</u> | Steven | _ hereunto set my hand and seal | |
|------|-------------------|---------------------------|--------------|---------------------------------|--|
| his | 20 day of <u></u> | APRIL , 2002. | Step | hen Son | |
| at _ | READING UK | (city) | | | |
| | UK | (country) | | | |
| | IN WITNESS W | HEREOF, I, <u>TAN, Ki</u> | m, Leong | hereunto set my harıd and seal | |
| this | day of | , 2002. | | | |
| _ | | (-:4-) | | | |
| | | | | | |
| * | | - | | | |
| | | | AND, William | hereunto set my hand and seal | |
| this | day of | , 2002. | | | |
| | | | | | |
| at _ | | (city) | | | |
| | | (country) | | | |
| | IN WITNESS W | VHEREOF, I, <u>MANOI</u> | LIS, Ilias | hereunto set my hand and seal | |
| this | day of | , 2002. | | | |
| | | | | | |
| at . | | (city) | | | |
| | | (country) | | | |

| | IN WITNESS WHEREOF, I, RI | EDMOND, Maura | hereunto set my hand and seal |
|--------|--------------------------------------|---------------|-------------------------------|
| this _ | day of, 20 | <u>002</u> . | |
| | (city) | | |
| this _ | IN WITNESS WHEREOF, I, W. day of, 20 | | hereunto set my hanc and seal |
| | (city) (country) | | |
| this | IN WITNESS WHEREOF, I, HO | | hereunto set my hand and seal |
| at | (city) (country) | | |
| this _ | | | hereunto set my hand and seal |
| at | (city) | | |

ASSIGNMENT

| | | | Attorney Docket No. 382 i.02 |
|-------------------------------------|--|--|---|
| | WHEREAS, I/We, a named inventor of the | below iden | tified patent application |
| 1. | WARR, Steven | 2. | TAN, Kim, Leong |
| 3. | CROSSLAND, William | 4. | MANOLIS, Ilias |
| 5. | REDMOND, Maura | 6. | WILKINSON, Timothy |
| 7. | HOLMES, Melanie | 8. | ROBERTSON, Brian |
| And | | | |
| busing Assign which and as | as Swan & Co. Ltd. a company incorporated ess located at Crokhall, Consett, Co. Durham nee; NOW, THEREFORE, I/we the named inversis hereby acknowledged, we each do hereby sessigns, the entire title, interest and right, includicaters Patent of the United States for Improven | . DH8 7ND ntor(s) for g II, assign and ing the right | on United Kingdom herein after called the good and valuable consideration, receipt of distribution the Assigner, its successors |
| <u>OPTI</u> | CAL SWITCHING WITH FERROELECTRI | C LIQUID | CRYSTAL SLMS |
| and the | ne inventions and any of them therein set forth d States and of countries foreign thereto which | and descri may be gra | bed, and any and all Letters Patent of the anted thereon or therefor in (check one) |
| (a) | U.S. patent application ent inventor(s) and filed herev | itled as abov | ve and listing the above named person(s) as |
| (b) | X U.S. application serial no. | 10/110,031 | , filed onArril 3, 2002 |
| (c) | U.S. Patent No.: | , issu | ned |

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 attoriey, 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.

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| IN WIT | TNESS WHERE | OF, I <u>, WARR, Steve</u> | <u>n</u> | _ hereunto set my h | and and seal |
|----------------------|---------------------|------------------------------------|-----------|---------------------|-------------------|
| thisda | y of | , 2002. | | | |
| | | | | | |
| at | (city) | | | | |
| | (countr | y) | | | |
| | | OF, I, <u>TAN, Kim, Le</u> | eong | hereunto set m | , hand and seal |
| his <u>20 fic</u> da | y of <u>Septemb</u> | <u>er, 2002.</u> | Cu | uleout | |
| t Sunny val | e, [A (city) | | | | |
| USA | (countr | y) | | | |
| | NESS WHEREO | OF, I, <u>CROSSLAND</u> , 2002. | , William | hereunto set n | ı / hand and seal |
| | | | | | - |
| t | (city) | | | | |
| | (countr | y) | | | |
| IN WIT | NESS WHERE | OF, I, <u>MANOLIS, II</u> | ias | hereunto set my | nand and seal |
| hisda | y of | , 2002. | | | |
| | | | | | |
| at | (city) | | | | |
| | (= 0 = = ++ | mr.\ | | | |

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RECORDED: 09/26/2002

PATENT REEL: 013322 FRAME: 0687