| MCE04-21 - Assignment Recordation Cover Sheet wpd  | Attorney Docket No.:MCE04-21  |
|--|---|
|  | N FORM COVER SHEET<br>ENTS ONLY   |
| To the Honorable Commissioner of Patents and Trader  | marks: Please record the attached original documents or copy thereof.   |
| 1. Name of conveying party(ies)  | Name and address of receiving party(ies)  |
| Alva E. Hare Executed: February 11, 2005 William G. Thorburn Executed: February 23, 2005 Keith M. Hinrichs Executed: February 10, 2005 | Name: GSI Lumonics Corporation  Internal Address:   |
| Additional name(s) of conveying party(ies) attached? [] Yes [X] No   |   |
| 3. Nature of conveyance:   | Street Address: 22300 Haggerty Road   |
| [X] Assignment [] Merger   |   |
| [ ] Security Agreement [ ] Change of Name  | City: Northville State: Michigan ZIP: 48167   |
| Execution Date: See Box 1  | Additional name(s) & address(es) attached? [ ] Yes [X] No   |
| If this document is being filed together with a new application,  A. Patent Application No.(s)  10/990,769  Additional number          | B. Patent No.(s)  |
| 5. Name and address of party to whom correspondence concerning document should be mailed:  | 6. Total number of applications and patents involved: [1]   |
| Name: James F. Thompson, Esq.  | 7. Total Fee (37 C.F.R. 3.41) \$ 40.00  |
| Internal Address:  CHAPIN & HUANG, L.L.C.  | <ul> <li>[ ] Enclosed with application filing fee</li> <li>[ X ] Authorized to charge any deficiencies or credit any overpayment to deposit account</li> <li>[ X ] Authorized to be charged to deposit account</li> </ul> |
| Street Address: Westborough Office Park  | 8. Deposit account number:  |
| 1700 West Park Drive   | 50-0901   |
| City: Westborough State: MA ZIP: 01581   | (Attach duplicate copy of this page if paying by deposit account)   |
| DO NOT   | T USE THIS SPACE  |
| 9. Statement and signature.  To the best of my knowledge and belief, the foregoing information document.                               | tion is true and correct and any attached copy is a true copy of the original   |
| James F. Thompson, Esq. Reg. No.: 36,699   | m H Thompson February 28, 2005  |
| Name of Person Signing   | Signature Date  |
| Total number of pages including co   | cover sheet attachments and do surrent. [7]   |

Attorney Docket No.: MCE04-21 Joint

15086169805

<u>ASSIGNMENT</u>

WHEREAS, WE, Alva E. Hare, William G. Thorburn and Keith M. Hinrichs, have invented a certain improvement In ABSOLUTE ENCODER EMPLOYING CONCATENATED, MULTI-BIT, INTERPOLATED SUB-ENCODERS described in an application for letters patent of the united states, the specification of which:

| LI  | is being executed on even date herewith and is about to be filed in the United States Patent Office; |
|-----|--|
| [X] | was filed on November 17, 2004 as U.S. Application No. 10/990,769;                                   |
| []  | was patented under U.S. Patent Noon  |

WHEREAS, GSI Lumonics Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the state of Michigan and having a usual place of business at 22300 Haggerty Road, Northville, Michigan 48167 USA desires to acquire an interest therein in accordance with agreements duly entered into with us:

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the

-2-

aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

**AND**, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor:

Alva F. Hare

Inventor:

William G. Thorburn

Date:

Inventor: Keith M. Hinrichs

Date: \_\_\_\_\_

Joint

## <u>ASSIGNMENT</u>

WHEREAS, WE, Alva E. Hare, William G. Thorburn and Keith M. Hinrichs, have invented a certain improvement in ABSOLUTE ENCODER EMPLOYING CONCATENATED, MULTI-BIT, INTERPOLATED SUB-ENCODERS described in an application for letters patent of the united states, the specification of which:

| i i | United States Patent Office;                                       |
|-----|--|
| [X] | was filed on November 17, 2004 as U.S. Application No. 10/990,769; |
| []  | was patented under U.S. Patent Noon                                |

WHEREAS, GSI Lumonics Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the state of Michigan and having a usual place of business at 22300 Haggerty Road, Northville, Michigan 48167 USA desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the

-2-

aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor:

| Alva E. Hare                  | -            |
|-------------------------------|--------------|
| Date:                         | _            |
| Inventor: William G. Thorburn | _            |
| Date: 23 FEBRUARY O           | S<br>-       |
| Inventor:Keith M. Hinrichs    | <del>-</del> |
| Date:                         |              |

28 2005 10:21

Attorney Docket No.: MCE04-21

15086169805

## <u>ASSIGNMENT</u>

WHEREAS, WE, Alva E. Hare, William G. Thorburn and Keith M. Hinrichs, have invented a certain improvement in ABSOLUTE ENCODER EMPLOYING CONCATENATED, MULTI-BIT, INTERPOLATED SUB-ENCODERS described in an application for letters patent of the united states, the specification of which:

| l J | United States Patent Office;                                       |
|-----|--|
| [X] | was filed on November 17, 2004 as U.S. Application No. 10/990,769; |
| []  | was patented under U.S. Patent Noon                                |

WHEREAS, GSI Lumonics Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the state of Michigan and having a usual place of business at 22300 Haggerty Road, Northville, Michigan 48167 USA desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the

-2-

aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

| inventor: |                     |
|-----------|---------------------|
| . —       | Alva E. Hare        |
| Date:     |                     |
|           | . •                 |
| Inventor: |                     |
| inventor  | William G. Thorburn |
| Date:     |                     |
|           |                     |
| Inventor: | Keith M. Hindrs     |
|           | Keith M. Hinrichs   |
| Date:     | 2/10/2005           |

**RECORDED: 02/28/2005**