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Assignment   Merger   Change of Name   Other:	Masatos	hi NARA (May 17, 2007) UNETOMO (May 15, 2007)	-12-07	5-27, Mita 3-chome Minato-ku, Tokyo 108-6321
Execution Date: See above  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)  B. Patent No.(s)  5. Name and address of party to whom correspondence concerning document should be mailed:  Name: Douglas P. Mueller Address: Hamre, Schumann, Mueller & Larson P.C. P. O. Box 2902 Minneapolis, MN 55402-0902  Statement and signature:  Do Not USE THIS SPACE  9. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of original document.  Douglas P. Mueller Name of Person Signing  Signature  June 12, 2007  Date  Total number of pages including attachments and do	3. Nature o	of conveyance: signment	-	Additional name(s) & address(es) attached?  Yes  No
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A. Patent Application No.(s)  B. Patent No.(s)  5/14/2007 MKAYPASH 00000115 11792504  5. Name and address of party to whom correspondence concerning document should be mailed:  Name: Douglas P. Mueller Address: Hamre, Schumann, Mueller & Larson P.C. P. O. Box 2902 Minneapolis, MN 55402-0902  Statement and signature:  DO NOT USE THIS SPACE  9. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of original document.  Douglas P. Mueller Name of Person Signing  B. Patent No.(s)  B. Patent No.(s)  Additional numbers attached? Yes No  Total number of pages including attachments and do	4. Application	tion number(s) or patent number(s):		
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Additional numbers attached?	/14/2007 MKAYPF	96H 00000115 117 <b>9290</b> 4		
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Name of Person Signing  Signature  Total number of pages including attachments and do	9. To the b original	est of my knowledge and belief, the fo document.		is true and correct and any attached copy is a true copy of the
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PATENT TRADEMARK OFFICE

PATENT REEL: 019459 FRAME: 0800 Docket No.

## ASSIGNMENT OF PATENT APPLICATION

## WHEREAS,

- 1. Shigeo KITTAKA residing at c/o Nippon Sheet Glass Company, Limited, 5-27, Mita 3-chome, Minato-ku, Tokyo, 108-6321 Japan and a citizen of Japan
- 2. <u>Masatoshi NARA</u> residing at <u>c/o Nippon Sheet Glass Company</u>, <u>Limited</u>, <u>5-27</u>, <u>Mita 3-chome</u>, <u>Minato-ku</u>, <u>Tokyo</u>, <u>108-6321 Japan</u> and a citizen of Japan
- 3. <u>Keiji TSUNETOMO</u> residing at <u>c/o Nippon Sheet Glass Company</u>, <u>Limited</u>, <u>5-27</u>, <u>Mita 3-chome</u>, <u>Minato-ku</u>, <u>Tokyo</u>, <u>108-6321 Japan</u> and a citizen of <u>Japan</u>

(hereinafter called "THE UNDERSIGNED") have made an invention and have executed
an application for Letters Patent of the United States for this invention which was filed on
, entitled WAVEGUIDE ELEMENT, METHOD FOR PRODUCING THE
WAVEGUIDE ELEMENT, AND OPTICAL SENSOR, and which has been given
application serial number;

and

WHEREAS <u>Nippon Sheet Glass Company</u>, <u>Limited</u> (hereinafter "ASSIGNEE") a corporation organized under the laws of <u>Japan</u> and having an office and place of business at <u>5-27</u>, <u>Mita 3-chome</u>, <u>Minato-ku</u>, <u>Tokyo</u>, <u>108-6321 Japan</u> wishes to acquire the entire right, title and interest in and to said invention and patent application and any Letters Patent to be obtained therefor;

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, THE UNDERSIGNED hereby sell, assign, and transfer to the ASSIGNEE, its successors, legal representative and assigns, the entire right, title and interest for the United States in and to the invention disclosed in said application, and in and to said application, as well as to all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and THE UNDERSIGNED hereby authorize and request the Commissioner of Patents of the United States to issue all Letters Patent for said invention to the ASSIGNEE of the entire right, title and interest in and to the same, in accordance with the terms of this instrument.

THE UNDERSIGNED hereby agree that THE UNDERSIGNED, their executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts known to the UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, it successors or assigns, the entire right, title and interest in and to the

PATENT REEL: 019459 FRAME: 0801 said invention, patent applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represent and agree with said ASSIGNEE, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by the UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED have hereunto set their hand on the dates indicated below.

Shigeo Kutaka

Signature

May 17. 2007

Date

May 15, 2007

Maratorhi Mora
Signature

Meiji Taunetomo
Signature

**PATENT** REEL: 019459 FRAME: 0802

RECORDED: 06/12/2007