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d Trademarks:  
or copy thereof.

1. Name of conveying party(ies): 11.3.03  
Shigeo Kittaka  
Kazuaki Oya  
Keiji Tsunetomo

2. Name and address of receiving party(ies):  
Name: Nippon Sheet Glass Co., Ltd.  
Internal Address:

Additional name(s) of conveying party(ies)  
attached? \_ Yes X No

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Street Address:  
4-7-28, Kitahama, Chuou-ku, Osaka-shi, Osaka 541-8559 Japan

Execution Date: August 28, 2003

Additional name(s) & addresses attached?  
\_ Yes  No

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)  
10/623,448

B. Patent No.(s)

Additional numbers attached? \_ Yes  No

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OPR/FINANCE

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

Name: David M. Crompton

Address: CROMPTON, SEAGER & TUFTE, LLC  
1221 Nicollet Avenue, Suite 800  
Minneapolis, MN 55403-2420

6. Total number of applications and patents  
involved: 1

7. Total fee (37 CFR 3.41). . \$40.00  
 Enclosed  
 Authorized to be charged to deposit account

8. Deposit Account Number: 50-0413  
(Attach duplicate copy of this page if paying by deposit account)

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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.

David M. Crompton  
Name of Person Signing

David M. Crompton  
Signature

10/28/03  
Date

Total number of pages comprising cover sheet, attachments and document: 3

ASSIGNMENT OF APPLICATION

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the undersigned inventor(s) hereby:

1) Sell(s), assign(s) and transfer(s) to

**NIPPON SHEET GLASS CO., LTD.**

(hereinafter referred to as "ASSIGNEE"), which has a business office at

4-7-28, Kitahama, Chuou-ku, Osaka-shi, Osaka 541-8559 Japan,

the entire right, title, and interest in any and all inventions and improvements disclosed in, application(s) based upon, and Patent(s) granted upon the information which is disclosed in the application entitled:

**DIFFRACTION DEVICE USING PHOTONIC CRYSTAL**

(File No. \_\_\_\_\_) for which I(we) have executed an application for a United States Letters Patent on \_\_\_\_\_ (Application Serial No. 10/623,448 filed on July 18, 2003.)

2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application, or any division, continuation, substitute or reissue thereof, to the ASSIGNEE.

3) Agree to execute all papers and documents and perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof and/or the enforcement of patents resulting from such applications.

Signed on the date(s) indicated beside my(our) signature(s).

*Shigeo Kittaka*

1) \_\_\_\_\_ Date: August 28, 2003  
Name: Shigeo KITTAKA

*Kazuaki Oya*

2) \_\_\_\_\_ Date: August 28, 2003  
Name: Kazuaki OYA

*Keiji Tsunetomo*

3) \_\_\_\_\_ Date: August 28, 2003  
Name: Keiji TSUNETOMO

*V.V. Serikov*

4) \_\_\_\_\_ Date: August 28, 2003  
Name: Vladimir V. SERIKOV

Witness: Kazuhisa Doushita Date: August 28, 2003

Witness: Yolengui Tabatnbi Date: August 28, 2003