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(Rev. 6-93)  
OMB No. 0651-0011 (exp. 4/94)



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To the Honorable Commissioner of Patents and Trademarks 101938284

ed original documents or copy thereof.

1. Name of conveying party(ies):  
**Koichi SAKAGUCHI  
Shinjiro DOMI  
Shigeki NAKAGAKI  
Katsuaki SUGANUMA**  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):  
Name: NIPPON SHEET GLASS CO., LTD.  
Internal Address: 7-28, Kitahama 4-chome,  
Chuo-ku, Osaka, Japan

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_  
Execution Date: September 7, 2001

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

4. Application number(s) or patent number(s): 09/936,861  
If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_  
A. Patent Application No.: \_\_\_\_\_ B. Patent No.(s) \_\_\_\_\_  
Additional numbers attached? Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: James R. Crawford  
Internal Address: FULBRIGHT & JAWORSKI L.L.P.  
Street Address: 666 Fifth Avenue  
City: New York State: NY Zip: 10103

6. Total number of applications and patents involved: 1  
7. Total fee (37 C.F.R. § 3.41) . . . . . \$40.00 (Fee paid)  
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 Authorization to be charged to deposit account if check is not attached  
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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.  
James R. Crawford [Signature] December 5, 2001  
Name of Person Signing Signature Date  
Total number of pages including cover sheet, attachment, and document: 5

Mail documents to be recorded with required cover sheet information to:  
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PATENTS ONLY  
KIT 332 (10108298)

(R.v. 6-93)  
OMB No. 0651-0011 (exp. 4/94)



To the Honorable Commissioner of Patents and Trademarks: Please record the attached

1. Name of conveying party(ies):  
**Koichi SAKAGUCHI**  
**Shinjiro DOMI**  
**Shigeki NAKAGAKI**  
**Katsuaki SUGANUMA**  
*09/20/01*  
Additional name(s) of conveying party(ies) attached?  Yes  No

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(Attach duplicate 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.  
James R. Crawford *James R. Crawford* September 18, 2001  
Name of Person Signing Signature Date  
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Adjustment date: 01/08/2002 LNUELLER  
09/25/2001 DBYRNE 00000002 CRAWFORD JAMES  
01 FC:581 -40.00 OP

## ASSIGNMENT

WHEREAS, Koichi SAKAGUCHI, Shinjiro DOMI, Shigeki NAKAGAKIand Katsuaki SUGANUMA

whose post office addresses appear below (hereinafter (collectively) referred to as ASSIGNOR), has (have) invented certain new and useful improvements in an

GLASS PANEL AND ITS MANUFACTURING METHOD

(TITLE OF INVENTION)

(hereinafter referred to as THE INVENTION) for which an application for United States Letters Patent was filed on SEPT. 18, 2001, Serial Number 091936861WHEREAS, NIPPON SHEET GLASS CO., LTD.whose post office address is 7-28, Kitahama 4-chome, Chuo-ku, Osaka, Japan

(and)

whose post office address is \_\_\_\_\_  
(hereinafter (collectively) referred to as ASSIGNEE), is desirous of acquiring the entire right, title and interest in and to the same in the United States and throughout the world;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, we, ASSIGNOR, by these presents do sell, assign and transfer until said ASSIGNEE, the entire right, title and interest in and to said invention and application throughout the United States of America, including any and all United States Letters Patent granted on any division, continuation, continuation-in-part and reissue of said application; and the entire right, title and interest in and to said invention throughout the world, including the right to apply for patents and inventor certificates in respect thereof and to claim priority pursuant to rights accorded ASSIGNOR under the terms of the Paris International Convention and all other available international conventions and treaties; and the entire right, title and interest in and to any and all patents, patents of addition, utility models, patents of importation, revalidation patents and inventor certificates which may be granted throughout the world in respect of said invention.

ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) or inventor certificate(s) in the United States and in foreign countries for said invention, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said invention, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE'S expense, to identify and communicate to ASSIGNEE at ASSIGNEE'S request documents and information concerning the invention that are within ASSIGNOR'S possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR'S obligations under this instrument shall extend to ASSIGNOR'S heirs, executors, administrators and other legal representatives.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent referred to above to ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE'S sole use and behoof; and for the use and behoof of ASSIGNEE'S legal representatives and successors, to the full end of the term for which such Letters Patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

 See following pages for additional assignors

Full Name of First Assignor	Koichi SAKAGUCHI	
Residence Address - Street	c/o NIPPON SHEET GLASS CO., LTD. 7-28, Kitahama 4-chome	
City	Chuo-ku, Osaka	
State or Country	Japan	Zip
DATE	September 7, 2001	SIGNATURE Koichi Sakaguchi

## ASSIGNMENT

Page 2

Full Name of 2nd Assignor		Shinjiro DOMI	
Residence Address - Street		c/o NIPPON SHEET GLASS CO., LTD. 7-28, Kitahama 4-chome	
City		Chuo-ku, Osaka	
State or Country		Japan	
Zip			
DATE	September 7, 2001	SIGNATURE	Shinjiro Domi

Full Name of 3rd Assignor		Shigeki NAKAGAKI	
Residence Address - Street		c/o NIPPON SHEET GLASS CO., LTD. 7-28, Kitahama 4-chome	
City		Chuo-ku, Osaka	
State or Country		Japan	
Zip			
DATE	September 7, 2001	SIGNATURE	Shigeki Nakagaki

Full Name of 4th Assignor		Katsuaki SUGANUMA	
Residence Address - Street		c/o The Institute of Scientific and Industrial Research, Osaka University, 8-1, Mihogaoka	
City		Ibaraki-shi, Osaka	
State or Country		Japan	
Zip			
DATE	September 7, 2001	SIGNATURE	Katsuaki Suganuma

Full Name of 5th Assignor			
Residence Address - Street			
City			
State or Country		Japan	
Zip			
DATE		SIGNATURE	