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M&U-12032.0059USWO

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1. Name of conveying party(ies):

Osamu ASANO (November 16, 2002)
Terufusa KUNISADA (November 25, 2002)
Tetsuo MINAAI (November 18, 2002)

110-03

2. Name and address of receiving party(ies):

Nippon Sheet Glass Co., Ltd.
7-28, Kitahama 4-chome, Chuo-ku
Osaka-shi, Osaka
Japan

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

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

3. Nature of conveyance:

- Assignment
- Security Agreement
- Other:
- Merger
- Change of Name

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)

10332692

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Curtis B. Hamre
Address: Merchant & Gould P.C.
P.O. Box 2903
Minneapolis, MN 55402-0903



6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00
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Curtis B. Hamre

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January 10, 2003

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PATENT
REEL: 014232 FRAME: 0182

WHEREAS,

Inventor(s) Name, Address, Citizenship 1. Osamu ASANO residing at Osaka, Japan and a citizen of Japan ; 2. Terufusa KUNISADA residing at Osaka, Japan and a citizen of Japan ; 3. Tetsuo MINAAI residing at Osaka, Japan and a citizen of Japan ;

(herein called "THE UNDERSIGNED") have made an invention and have executed an application for Letters Patent of the United States on _____ for this invention, which application is entitled _____ and which has been given Serial Number _____ and the filing date of _____;

Name of Corporation AND WHEREAS Nippon Sheet Glass Co., Ltd. (herein called "ASSIGNEE"), a corporation organized under the laws of _____, and having an office and place of business at 7-28, Kitahama 4-chome, Chuo-ku, Osaka-shi, Osaka, Japan

State or Country of Incorporation and Address 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 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 and assigns, the entire right, title and interest for the United States in and to the invention disclosed in the aforesaid application, and in and to the said application, 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 to issue any and all United States Letters Patent for the aforesaid invention to the ASSIGNEE of the entire right, title and interest in and to the same, for the use of the ASSIGNEE, its successors and assigns.

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, its successors or assigns the entire right, title and interest in and to the said invention, 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.

Each inventor must sign & date

Signature Osamu ASANO Date 16/11/02

Note: No legalization or other witness required

Signature Terufusa KUNISADA Date 25/Nov./02

Signature Tetsuo MINAAI Date 18/Nov./02