Atty Docket No.:

FORM PTO-1595 1-31-92 254318US0/scm



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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

To the Director of the United States Patent and Trademark Office. Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): Toshiya MATSUBARA, Masaharu TANAKA, Kenji YAMADA, Name: Asahi Glass Company, Limited and Hajime KATAYAMA Address: 12-1, Yurakucho 1-chome, Chiyoda-ku, Tokyo 100-8405 Japan Additional name(s) of conveying party(ies) attached? 🔲 Yes **\backsim** No 3. Nature of Conveyance: ☐ Merger Assignment ☐ Security Agreement ☐ Change of Name □ Other Additional name(s) and address(es) attached? ☐ Yes ■ No Execution Date: May 26, June 1, May 27, 26, 2004 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: May 26, June 1, May 27, 26, 2004 B. Patent No.(s) A. Patent Application No.(s) Additional numbers attached?

Yes No 5. Name and address of party to whom correspondence 6. Total applications and patents involved: 1 concerning document should be mailed: 7. Total fee (37 CFR 3.41): \$40.00 Customer Number Enclosed ☐ Authorized to be charged to deposit account Tel. (703) 413-3000 8. Deposit account number: 15-0030 Fax. (703) 413-2220 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 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. Name of Person Signing C. Irvin McClelland Registration Number: Registration Number 21,124 Total number of pages including this cover sheet: 3 Do not detach this portion Mail documents to be recorded with required cover sheet information to: Director of the United States Patent and Trademark Office Mail Stop Assignment Recordation Services Alexandria, Virginia. 22313 66/15/2004 HMARZII 00000092 10864593 02 FC:8021

> PATENT REEL: 015455 FRAME: 0493

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Assignment of Application

Page 1 of 2

	WHEREAS, I (WE)	1) Toshiya Matsubara, 2) Masaharu Tanaka, 3) Kenji Yamada and 4) Hajime	Katayama	
ERT NAMES D RESIDENCE PRESS OF INVENTORS:		1) and 4) of: c/o Asahi Glass Company, Limited		
		10, Goikaigan, Ichihara-shi, Chiba, Japan		
		2) of: 8-14-708, Nakahonmachi, Tobata-ku, Kitakyushu-shi, Fukuoka, Japan		
		3) of: c/o Asahi Glass Company, Limited		
		1150, Hazawa-cho, Kanagawa-ku, Yokohama-shi, Kanagawa, Japan		
			, respectively,	
ERT TITLE INVENTION:	have invented certain n	ew and useful improvements in: PROCESS AND APPARATUS FOR PRODUC		
	INORGANIC SPHER			
ERT DATE IN- ITORS SIGNED CLARATION:		n for Letters Patent was executed on May 26, 27 and June 1,	2004	
	(Application No.	, filed), and	
ERT NAME O ADDRESS OF MPANY OR MER ASSIGNEE	WHEREAS, Asahi Glass Company, Limited			
	(hereinafter referred to as "ASSIGNEE") having a place of business at: 12-1, Yurakucho 1-chome, Chiyoda-ku,			
	TOKYO 100-8405, JAPAN			
	:- 4:	about material states and transport to an discount to the state of the	Description	

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, 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 me (us) had this Assignment and sale not been made.

03/03

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of 1940 Duke Street Alexandria, Virginia 22314 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

EXECUTED AT JAPAN	
Date: 26/May/2004	Toshija llatsubara
	(Signature of Inventor Toshiya Matsubara
Date: 1/June/2004	Masaharu Janaka
	(Signature of Inventor) Masaharu Tanaka
Date: 27/May/2004	Kenji Yamada (Signature of Investor) Kenji Yamada
,	(Signature of Invertor) Kenji Yamada
Date: 26/May /2004	Hajine Katayama (Signature of Inventor) Hajime Katayama
	(Signature of Inventor) Hajime Katayama
Date:	
	(Signature of Inventor)
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Date:	(Signature of Inventor)
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RECORDED: 06/10/2004

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