

12-16-2002

Atty. Docket No.: 0171-0918P

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To the Honorable _____ 102312181 _____ Remarks:
Please record the attached original documents or copy thereof.

J1033 U.S. PTO
10/31/98
12/11/02

1. Name of conveying party(ies): [FAMILY NAME (ALL CAPS), Given Name] OTSUKA, Hisatoshi SHIROTA, Kazuo Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	2. Name and address of receiving party(ies) Name: SHIN-ETSU CHEMICAL CO., LTD. Internal Address: Street Address: 6-1, Otemachi, 2-chome, Chiyoda-ku City: Tokyo State: ZIP: Country: JAPAN Postal Code: Additional name(s) & address(es) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: November 15, 2002	

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: November 15, 2002 A. Patent Application No(s). NEW Additional numbers attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		B. Patent No.(s).
5. Name and address of party to whom correspondence concerning document should be mailed: Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP Street Address: P.O. BOX 747 City: FALLS CHURCH State: VA ZIP: 22040-0747 Country: USA	6. Total No. of applications/patents involved: One (1) 7. Total fee (37 C.F.R. § 3.41): \$40.00 <input checked="" type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account, if no fee attached. 8. Deposit account number: 02-2448 (Attach triplicate copy of this page if paying by deposit account)	

DO NOT USE THIS SPACE

9. Statement and signature.		
<u>Gerald M. Murphy, Jr., #28,977</u> Name of Person Signing/Reg. No.	 Signature	<u>December 11, 2002</u> Date
Total number of pages including cover sheet, attachments, and document: Three (3)		

GMM/tmr

(Rev. 02/11/02)

PATENT
REEL: 013564 FRAME: 0433

ASSIGNMENT

Application No. NEWFiled Dec. 11, 2002Insert Name(s)
of Inventor(s)

➡ WHEREAS, Hisatoshi OTSUKA and Kazuo SHIROTA of
Nakakubiki-gun, Niigata-ken, Japan and
Nakakubiki-gun, Niigata-ken, Japan

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in _____

Insert Title
of Invention

➡ Synthetic Quartz Glass Ingot, Synthetic Quartz Glass,
and Methods of Manufacture Thereof

for which an application for Letters Patent of the United States of America has been executed by the undersigned
(except in the case of a provisional application).

Insert Date
of Signing of
Application

➡ on November 15, 2002; and

Insert Name
of Assignee

➡ WHEREAS, Shin-Etsu Chemical Co., Ltd.

Insert Address
of Assignee

➡ of 6-1, Otemachi, 2-chome, Chiyoda-ku, Tokyo, Japan

CHECK BOX
IF APPROPRIATE

➡ ☐ its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of
acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that
may be granted therefor in the United States of America and
☐ in any and all foreign countries.

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand
paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned
has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said
Assignee the full and exclusive right to the said invention in the United States of America, its territories,
dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s)
which may be granted therefor in the United States of America, its territories, dependencies and possessions,
and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or
terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date 15 Nov, 2002, Name of Inventor Hisatoshi Otsuka
(signature) Hisatoshi OTSUKA

Date 15 Nov, 2002, Name of Inventor Kazuo Shiota
(signature) Kazuo SHIROTA

Date _____, Name of Inventor _____
(signature)

Date _____, Name of Inventor _____
(signature)

Date _____, Name of Inventor _____
(signature)

Date _____, Name of Inventor _____
(signature)