MRD 197 10/15/97 IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

In re Application of Tsuquo FUKUDA et al. Serial No.: 08/897,945

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101536121

Filed: July 24, 1997

For: PROCESS FOR GROWING CRYSTALLINE SILICON PLATES, A CRYSTALLINE SILICON PLATE-GROWTH APPARATUS, SUCH CRYSTALLINE SILICON PLATES THEMSELVES, AND A PROCESS FOR PRODUCING SOLAR CELL ELEMENTS

ASSIGNMENT TRANSMITTAL LETTER

Honorable Assistant Commissioner of Patents and Trademarks Washington, D.C. 20231

Sir:

Please record the attached Assignment in the name of the assignor and the assignee as indicated below and return the original document to the undersigned.

Name of Conveying Party(ies): 1.

Tsuguo FUKUDA, Minoru IMAEDA and Yuichiro IMANISHI.

Name and Address of Receiving Party(ies): 2.

> NGK INSULATORS, LTD. 2-56, Suda-Cho, Mizuho-Ku, Nagoya City, Aichi Pref., Japan.

Execution Date of Assignment: August 12, 1997. з.

If this Assignment is being filed together with a new application, the execution date of the application is: August 4. <u>12, 1997</u>.

Charge 40.08

PATENT REEL: 011152 FRAME: 0514 <u>_</u>____

5. Total number of applications and patents involved: one.

All correspondence should be addressed to:

Roger W. Parkhurst PARKHURST & WENDEL, L.L.P. Suite 210 1421 Prince Street Alexandria, VA 22314-2805.

The Assignment recordation fee (\$40.00) is covered by our attached Check Number 9699.

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. Total number of pages including cover sheet, attachments and document <u>three</u>.

If there should be any questions concerning the amount of the fee or should our check become detached, please debit or credit our Deposit Account Number 16-0331 as needed in order to effect proper filing of the attached document.

Respectfully submitted,

PARKHURST & WENDEL, L.L.P.

Roger W. Parkhurst Registration No. 25,177

Oct 15, 1997 Date

RWP/ak Attorney Docket No. <u>NSUG:762</u>

PARKHURST & WENDEL, L.L.P. 1421 Prince Street, Suite 210 Alexandria, Virginia 22314-2805 Telephone: (703) 739-0220

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ASSIGNMENT	9700
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ASSIGNMENT

		(1) Tsuguo FUKUDA (5)
(1-8) insert Neme (s) of inventor (s)		(2) Minoru IMAEDA and (6)
	meantor (ar)	(3) Yuichiro IMANISHI (7) and
		(4)(8)
		In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and sot over to
(9)	insert name of Assignee	(9) NCK INSULATORS, LTD.
(10)	Insert address of Assigned	(10) or 2-56, Suda-Ono, Mizuho-Ku, Nagoya City, Aichi Pref., Japan
(11)	insert identification of Invention, auch as Tilis, Case Number or Foreign Application Number	 (hereinafter designated as the Assignee) the entire right, title and interest for the United States, its territories, dependencies and possessions, in the invention, and all applications for patent and any Letters Patent which may be granted therefor, known as
(12)	insert Date of Signing of Application	(12) on
(13)	Alternative identification for filed applications	(13) U.S. application Serial Number

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

2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignce in every way possible in obtaining evidence and going forward with such interference.

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

4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) 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.

6) The undersigned hereby grant(s) the firm of PARKHURST, WENDEL & BURR 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 United States Patent and Trademark Office recordation of this document.

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

Date Aug. 12, 1997 Name of Inventor .	Tauguo	Fukuda	
Date Name of Inventor .			(SEAL)
Date Aug. 12, 1997 Name of Inventor .	Minon	Imaedy	(SEAL)
Date Name of Inventor	Minoru	IMAEDA	(SEAL)
Date Aug. 1.2, 1997 Name of Inventor	Tuichiro	Imanistri	(SEAL)
Date Name of Inventor		IMANISHI	(SEAL)
Date Name of Inventor	•		(SEAL)
Date Name of Inventor	- 1		(SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Counsul if outside the U.S.A. If acither, then it should be signed before at least two witnesses who also sign here: Deto Aug.12,1997 Witness Graduite D Uraganov Date Aug.12,1997 Witness Jusaka Ric

PATENT REEL: 011152 FRAME: 0516

RECORDED: 10/15/1997