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03-28-2003

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Conveyance type: Assignment Security Agreement
 License Change of name
 Merger Other _____

Conveying Party (ies): (Last, First, Middle Initial) Execution Date

First party Name: **MARUYAMA, Eiji** **March 6, 2003**

Second party Name:

Third party Name:

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

Receiving Party (ies):

First party Name: **SANYO ELECTRIC CO., LTD.**

Address: **5-5, Keihan-Hondori 2-chome, Moriguchi City, Osaka
570-8677 Japan**

Second party Name:

Address:

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

Domestic Representative Name and Address

Armstrong, Westerman & Hattori, LLP

Suite 1000, 1725 K Street

Washington, D.C. 20006

(202) 659-2930



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PATENT TRADEMARK OFFICE

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Correspondent Name and Address

Telephone: 202-659-2930

ARMSTRONG, WESTERMAN & HATTORI, LLP
1725 K Street, N.W., Suite 1000
Washington, D.C. 20006

Pages Enter the total number of pages of the attached conveyance document: 1
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Application Number(s) or Patent Number(s) Additional numbers attached? Yes No
A. Patent Application No.(s) B. Patent No.(s)

If this document is being filed together with a new application, enter the date the application was signed by the first named executing inventor: March 6, 2003

(Do not recite both application and patent numbers.)

Patent Cooperation Treaty (PCT) PCT _____
Enter PCT application number only if PCT _____
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Number of Properties Enter the total number of properties involved: 1

Fee Amount Fee Amount for Properties Listed (37 CFR 3.41). \$40.00
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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.

Donald W. Hanson
Name of Person Signing


Signature

March 17, 2003
Date

27,133
Registration No.

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by **SANYO ELECTRIC CO., LTD.**

(Insert ASSIGNEE's Name(s) Address(es))

5-5, Keihan-Hondori 2-chome, Moriguchi City, Osaka 570-8677 Japan

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

(Title of Invention)

PHOTOVOLTAIC ELEMENT AND MANUFACTURING METHOD OF THE PHOTOVOLTAIC ELEMENT

(*If the assignment is being filed after the filing of the application, this section must be completed)

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

filed on _____, Serial No. _____.

(ARMSTRONG, WESTERMAN & HATTORI, LLP is hereby authorized to insert the series code, serial number and/or filing date hereon, when known)

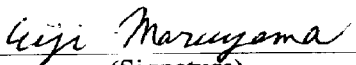
and all Letters Patent of the United States to be obtained therefore on said application or any continuation, divisional, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with the application and any continuation, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, reissue or reexamination thereof or Letters Patent 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, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

	MARUYAMA, Eiji	<i>March 6, 2003</i>
(Signature)	(Type Name)	(Date)
_____	_____	_____
(Signature)	(Type Name)	(Date)
_____	_____	_____
(Signature)	(Type Name)	(Date)
_____	_____	_____
(Signature)	(Type Name)	(Date)
_____	_____	_____
(Signature)	(Type Name)	(Date)

NO LEGALIZATION REQUIRED