

ASSIGNMENT

WHEREAS, WE, **Mark A. STAN**, residing at 9402 Corona, NE, Albuquerque, New Mexico, 87122, citizen of the United States; **Nein Y. LI**, residing at 1545 Murre Lane, Sunnyvale, California, 94087, citizen of Taiwan, **Frank A. SPADAFORA**, residing at 10121 Irbid Road, NE, Albuquerque, New Mexico, 87122, citizen of the United States; **Hong Q. HOU**, residing at 11533 Woodmar Lane, NE, Albuquerque, New Mexico, 87122, citizen of the Peoples Republic of China; **Paul R. SHARPS**, residing at 1323 Michael Hughes Drive, NE, Albuquerque, New Mexico, 87112, citizen of the United States; and **Navid S. FATEMI**, residing at 7709 Eagle Rock Ave., NE, Albuquerque, New Mexico, 87122, citizen of the United States, (hereinafter "ASSIGNORS") are the inventors of the invention entitled **AN APPARATUS AND METHOD FOR OPTIMIZING THE EFFICIENCY OF GERMANIUM JUNCTIONS IN MULTI-JUNCTION SOLAR CELLS** for which we have executed an application for a Patent of the United States

_____ which is executed on even date herewith

X which was filed on June 19, 2001 as United States Patent Application Number 09/885,319 or PCT International Application Number _____ and was amended on _____ (if applicable).

and WHEREAS, Emcore Corporation (hereinafter "ASSIGNEE"), a New Jersey Corporation having a business address at 145 Belmont Drive, Somerset, New Jersey 08873, is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, WE, the said ASSIGNOR(s), have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, my entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that I will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries. In the event that I am not an employee of ASSIGNEE at the time such aid is required, I agree to render such aid in return for an hourly rate of pay no greater than twice my equivalent regular hourly pay as it stood on the date of my departure from ASSIGNEE.

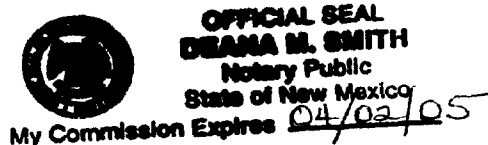
IN TESTIMONY WHEREOF, I hereunto set my hand and seal the day and year opposite my signature.

Date: 11/16/01 Mark A. Stan L.S.
Mark A. Stan

In the State of New Mexico, county of Bernalillo on Nov. 16, 2001, before me Deana Smith, Notary Public, personally appeared Mark A. Stan, personally known to me/proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal

Deana Smith
Notary Public

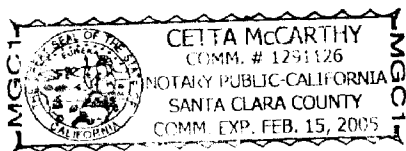


IN TESTIMONY WHEREOF, I hereunto set my hand and seal the day and year opposite my signature.

Date: 11/21/2001 Nien Y. Li L.S.
Nien Y. Li

In the State of California, county of Santa Clara on 11-21-01, before me Cetta McCarthy Notary Public, personally appeared Nien Y. Li, ~~personally known to me~~/proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal



Cetta McCarthy
Notary Public

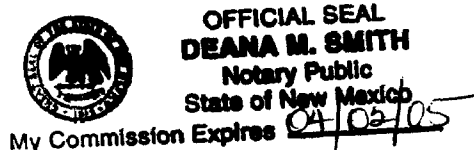
IN TESTIMONY WHEREOF, I hereunto set my hand and seal the day and year opposite my signature.

Date: 11/27/01 Frank A. Spadafora L.S.
Frank A. Spadafora

In the State of New Mexico, county of Bernalillo on 11/27/01, before me Deana Smith Notary Public, personally appeared Frank A. Spadafora, personally known to me/proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal

Deana Smith
Notary Public



IN TESTIMONY WHEREOF, I hereunto set my hand and seal the day and year opposite my signature.

Date: 11/16/2001 Hong Q. Hou L.S.
Hong Q. Hou

In the State of New Mexico, county of Bernalillo on Nov. 16, 2001, before me Deana Smith, Notary Public, personally appeared Hong Q. Hou, personally known to me/proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal

Deana Smith
Notary Public



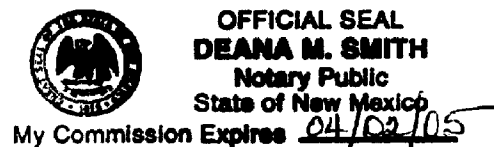
IN TESTIMONY WHEREOF, I hereunto set my hand and seal the day and year opposite my signature.

Date: 11/16/2001 Paul R. Sharps L.S.
Paul R. Sharps

In the State of New Mexico, county of Bernalillo on Nov. 16, 2001, before me Deana Smith, Notary Public, personally appeared Paul R. Sharps, personally known to me/proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal

Deana Smith
Notary Public



IN TESTIMONY WHEREOF, I hereunto set my hand and seal the day and year opposite my signature.

Date: 11/16/01 Navid S. Fatemi L.S.
Navid S. Fatemi

In the State of New Mexico, county of Bernalillo, on Nov. 16, 2001, before me Deana Smith, Notary Public, personally appeared Navid S. Fatemi, personally known to me/proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal

Deana Smith
Notary Public

 OFFICIAL SEAL
DEANA M. SMITH
Notary Public
State of New Mexico
My Commission Expires 01/02/05