

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>John Kouvetakis</td><td>05/18/2007</td></tr><tr><td>Matthew Bauer</td><td>06/15/2007</td></tr><tr><td>John Tolle</td><td>05/18/2007</td></tr><tr><td>Candi Cook</td><td>06/05/2007</td></tr></tbody></table>		Name	Execution Date	John Kouvetakis	05/18/2007	Matthew Bauer	06/15/2007	John Tolle	05/18/2007	Candi Cook	06/05/2007		
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RECEIVING PARTY DATA													
<table border="1"><tr><td>Name:</td><td>Arizona Board of Regents, acting for and on behalf of Arizona State University, a corporate body under Arizona Law</td></tr><tr><td>Street Address:</td><td>The Brickyard, 699 S. Mill Avenue</td></tr><tr><td>Internal Address:</td><td>Suite 601, Room 691AA</td></tr><tr><td>City:</td><td>Tempe</td></tr><tr><td>State/Country:</td><td>ARIZONA</td></tr><tr><td>Postal Code:</td><td>85281</td></tr></table>		Name:	Arizona Board of Regents, acting for and on behalf of Arizona State University, a corporate body under Arizona Law	Street Address:	The Brickyard, 699 S. Mill Avenue	Internal Address:	Suite 601, Room 691AA	City:	Tempe	State/Country:	ARIZONA	Postal Code:	85281
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PROPERTY NUMBERS Total: 1													
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CORRESPONDENCE DATA													
Fax Number: (312)913-0002 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
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ATTORNEY DOCKET NUMBER:	05-720-US3												

CH \$40.00 10559980

500312254

PATENT
REEL: 019542 FRAME: 0978

NAME OF SUBMITTER:

David Harper

Total Attachments: 4

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ASSIGNMENT

Case No.: 05-720-US3

Serial No : 10/559,980

Inventors: John Kouvetakis, Matthew Bauer, John Tolle and Candi Cook

Filing Date: December 8, 2005

Date of Execution
of Application:

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to:

**Arizona Board of Regents, acting for and on behalf of Arizona State University,
a corporate body organized under Arizona Law**

its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

**Method for Preparing Ge1-x-ysnxey (e=p, as, sh) Semiconductors and Related si-ge-sn-e
and si-ge-e Analogs**

and identified as:

Case No. 05-720-US3

in the offices of McDONNELL BOEHNEN HUBERT & BERCHOFF and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

- 1 -

YOUNG & LUCAS
BERT L. BERCHOFF
SOUTH WACKER DRIVE
CHICAGO, ILLINOIS 60606
TELEPHONE (312) 213-4601

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

WITNESS my hand and seal this 18 day of May, 2007.

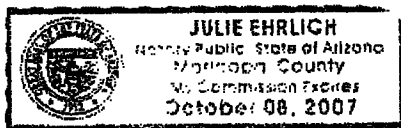
J. Kouvetakis
John Kouvetakis

State of Arizona

County of Maricopa

The foregoing instrument was acknowledged before me this 18 day of

May, 2007 by Julie Ehrlich



[Signature]
NOTARY PUBLIC

WITNESS my hand and seal this 15 day of June, 2007

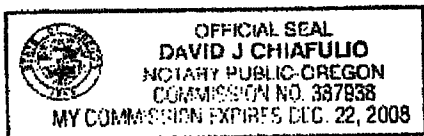
Matthew Bauer
Matthew Bauer

State of Oregon

County of Washington

The foregoing instrument was acknowledged before me this 15th day of
June, 2007 by Matthew Bauer

David J. Chiafوليو
NOTARY PUBLIC



WITNESS my hand and seal this 18 day of May, 2007

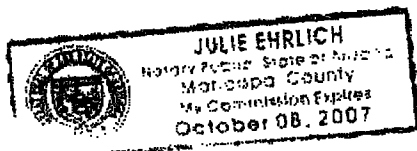
John Tolle
John Tolle

State of Arizona

County of Maricopa

The foregoing instrument was acknowledged before me this 18 day of
May, 2007 by Julie Ehrlich

Julie Ehrlich
NOTARY PUBLIC



WITNESSE my hand and seal this 5th day of June
Candi Cook

State of Oregon
County of Washington

The foregoing instrument was acknowledged before me this 5th day of June by Candi Cook, only



Renae Shippey
NOTARY PUBLIC
Comm exp Oct 26, 2008