Form PTO-1595 (Rev. 06/04) OMB No. 0651-0027 (exp. 6/30/2005)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office
RECORDATION FORM	M COVER SHEET
PATENT	
To the Director of the U.S. Patent and Trademark Office: Pleas	se record the attached documents or the new address(es) below.
Name of conveying party(ies)/Execution Date(s):     James W. Mayer Terry L. Alford     Hyunchul Kim Daniel Adams	2. Name and address of receiving party(ies) Name: _ ARIZONA BOARD OF REGENTS,
Douglas C. Thompson	Internal Address: acting for and on behalf of
	Arizona State University,
Execution Date(s) 12-15-04; 12-16-04; 12-17-04; 2-1-05  Additional name(s) of conveying party(ies) attached? Yes No.	Street Address: c/o Arizona Technology
3. Nature of conveyance:	Enterprises, LLC - Brickyard Suite 601, 691AA
Assignment Merger	City: _699 S. Mill Avenue
Security Agreement Change of Name	State: Tempe, Arizona
Government Interest Assignment Executive Order 9424, Confirmatory License	Country: United States Zip: 85281
Record to correct Assignce's address prother reel/frame 015726/0359	eviously recorded at Additional name(s) & address(es) attached? Yes V No
A. Patent Application No.(s) PCT/US04/38702  Additional numbers att	B. Patent No.(s) tached? ☐Yes ✔No
5. Name and address to whom correspondence	6. Total number of applications and patents
concerning document should be mailed:	involved: 1
Name: Robert D. Atkins	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40
Internal Address: QUARLES & BRADY STREICH	Authorized to be charged by credit card
LANG LLP	Authorized to be charged by cream card  Authorized to be charged to deposit account
Street Address: One Renaissance Square	Enclosed
Two North Central Avenue	None required (government interest not affecting title)
City: Phoenix	8. Payment Information
State: Arizona Zip: 85004	a. Credit Card Last 4 Numbers Expiration Date
Phone Number: (602) 229-5311	•
Fax Number: (602) 229-5690	b. Deposit Account Number 17-0055
Email Address: rda@quarles.com	Authorized User Name Robert D. Atkins
9. Signature:	June 20, 2005
Signature	Date Tatal number of pages including gover
Robert D. Atkins	Total number of pages including cover sheet, attachments, and documents: 11

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:

Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

PATENT
Doc. No.: 1905608

REEL: 016368 FRAME: 0625

Docket Number: 112624.00062 700188977

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:/05/2005 13:20 FAX 602 229 5690

Quarles & Brady - PHX

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# 02/16/2005 700154757

Form PTO-1595 (Rev. 06/04) CMB No. 0851-0027 (exo. 6/30/2005)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office	
RECORDATION FORM		
PATENTS ONLY		
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1. Name of conveying party(les)/Execution Date(s):	2. Name and address of receiving party(les)	
James W. Mayer Terry L., Alford	Namo: ARIZONA BOARD OF REGENTS,	
Hyunchul Kim Daniel Adams Douglas C. Thompson	Internal Address: acting for and on behalf of	
	Arizona State University	
Execution Date(s) 12-16-04; 12-16-04; 12-17-04; 2-1-05	Street Address: c/o Arizona Technology	
Additional name(s) of conveying party(les) attached? Yes V No	Enterprises, LLC - Brickyard Suite 601, 691AA	
3. Nature of conveyance:		
Acsignment Merger	City: Tempe	
Security Agreement L Change of Name	State: Arizona	
Government Interest Assignment	Country: United States Zip: 85281	
Executive Order 9424, Confirmatory License	[ ]	
Other	Additional name(s) & address(es) attached? Yes W No	
4. Application or patent number(s): This  A. Patent Application No.(s)	document is being filed together with a new application.  B. Patent No.(s)	
PCT/US04/38702	D. Laidili 140'(2)	
PG170804/36702		
Additional numbers at	ached? Type No	
5. Name and address to whom correspondence	6. Total number of applications and patents	
concerning document should be mailed:	învolyed: 1	
Name;_Robert D. Atkins	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40	
Internal Address: QUARLES & BRADY STREICH	Authorized to be charged by credit card	
LANG LLP	Authorized to be charged to deposit account	
Street Address: One Renaissance Square	Enclosed	
Two North Central Avenua	None required (government interest not affecting title)	
City: Phoenix	9. Payment Information	
State: Arizona Zip: 85004	a. Credit Card Last 4 Numbers Expiration Date	
Phone Number: (802) 229-5311		
Fex Number: (602) 229-5690	b. Deposit Account Number 17-0055	
Email Address: rda@quarles.com	Authorized User Name Robert D. Atkins	
9. Signature: Att. Atte	02-08-05	
Signature	Date	
Robert D. Atkins Name of Person Signing	Total number of pages including cover sheet, altachments, and documents:	
	- At 12 And San San Color Buildings and Anna San San San San San San San San San	

Documents to be recorded (including cover about about be lause to (783) 505-5955, or mailed for Mail Stop Assignment Recordsion Services, Director of the USPTO, P.D.Box 1420, Aleyandria, V.A. 22213-1430

Docket Number: 112624.00082 Doc. No.: 1905608

REEL: 016368 FRAME: 0626

For good and valuable consideration, the receipt of which is hereby acknowledged, I, JAMES W. MAYER of Phoenix, AZ, have sold, assigned, and transferred, and do hereby sell, assign, and transfer unto ARIZONA BOARD OF REGENTS, acting for and on behalf of Arizona State University (ABR/ASU), a non-profit organization of the State of Arizona, having its principal office in Tempe, State of Arizona, United States of America, and its successors, assigns, and legal representatives, the entire right, title, and interest in and to certain invention(s) entitled FLEXIBLE ELECTRONICS USING ION IMPLANTATION TO ADHERE POLYMER SUBSTRATE TO SINGLE CRYSTAL SILICON SUBSTRATE, which is described, illustrated, and claimed in an application filed under the Patent Cooperation Treaty (PCT), Application No. PCT/US04/38702, filed November 17, 2004, together with the entire right, title and interest in and to the PCT application, and in and to any application for patent filed in any country claiming priority to, claiming the invention described in, or otherwise based on the PCT application, and in and to any continuation, continuation-in-part, division, reissue, reexamination, extension, renewal, or substitute thereof, and in and to any patent which may grant from such application(s).

I hereby authorize and request all government authorities in any country to issue patent(s) upon the aforesaid application, continuation, continuation-in-part, division, reissue, reexamination, extension, renewal, or substitute, to ABR/ASU, for the sole use and behalf of ABR/ASU, its successors, assigns, and legal representatives, to the full end of the term for which the patent(s) may be granted, the same as they would have been held and enjoyed by me had this assignment not been made.

I agree that, when requested, I will, without charge to ABR/ASU, but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient for securing and maintaining patents for the invention(s) in any and all countries and for vesting title thereto in ABR/ASU, its successors, assigns, and legal representatives or nominees.

I covenant with ABR/ASU, its successors, assigns, and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license, or other encumbrance.

OBPHX\1891846.1

For good and valuable consideration, the receipt of which is hereby acknowledged, I, HYUNCHUL KIM of Chandler, AZ, have sold, assigned, and transferred, and do hereby sell, assign, and transfer unto ARIZONA BOARD OF REGENTS, acting for and on behalf of Arizona State University (ABR/ASU), a non-profit organization of the State of Arizona, having its principal office in Tempe, State of Arizona, United States of America, and its successors, assigns, and legal representatives, the entire right, title, and interest in and to certain invention(s) entitled FLEXIBLE ELECTRONICS USING ION IMPLANTATION TO ADHERE POLYMER SUBSTRATE TO SINGLE CRYSTAL SILICON SUBSTRATE, which is described, illustrated, and claimed in an application filed under the Patent Cooperation Treaty (PCT), Application No. PCT/US04/38702, filed November 17, 2004, together with the entire right, title and interest in and to the PCT application, and in and to any application for patent filed in any country claiming priority to, claiming the invention described in, or otherwise based on the PCT application, and in and to any continuation, continuation-in-part, division, reissue, reexamination, extension, renewal, or substitute thereof, and in and to any patent which may grant from such application(s).

I hereby authorize and request all government authorities in any country to issue patent(s) upon the aforesaid application, continuation, continuation-in-part, division, reissue, reexamination, extension, renewal, or substitute, to ABR/ASU, for the sole use and behalf of ABR/ASU, its successors, assigns, and legal representatives, to the full end of the term for which the patent(s) may be granted, the same as they would have been held and enjoyed by me had this assignment not been made.

I agree that, when requested, I will, without charge to ABR/ASU, but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient for securing and maintaining patents for the invention(s) in any and all countries and for vesting title thereto in ABR/ASU, its successors, assigns, and legal representatives or nominees.

I covenant with ABR/ASU, its successors, assigns, and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license, or other encumbrance.

Signature for HYUNCHUL KIM

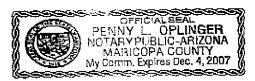
STATE OF ARIZONA COUNTY OF MARICOPA

I, In the County and State aforesaid, do hereby certify that MYUNCHUL KIM, whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he/she signed, sealed and delivered the instrument as his/her free

and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this

Signature of Notary



QBPHX\1891846.1

NOTARY PUBLIC ARIZONA MARICOPA COUNTY My Comm. Expires May 2, 2006

### ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, DOUGLAS C. THOMPSON, JR. of Chandler, AZ, have sold, assigned, and transferred, and do hereby sell, assign, and transfer unto ARIZONA BOARD OF REGENTS, acting for and on behalf of Arizona State University (ABR/ASU), a non-profit organization of the State of Arizona, having its principal office in Tempe, State of Arizona, United States of America, and its successors, assigns, and legal representatives, the entire right, title, and interest in and to certain invention(s) entitled FLEXIBLE ELECTRONICS USING ION IMPLANTATION TO ADHERE POLYMER SUBSTRATE TO SINGLE CRYSTAL SILICON SUBSTRATE, which is described, illustrated, and claimed in an application filed under the Patent Cooperation Treaty (PCT), Application No. PCT/US04/38702, filed November 17, 2004, together with the entire right, title and interest in and to the PCT application, and in and to any application for patent filed in any country claiming priority to, claiming the invention described in, or otherwise based on the PCT application, and in and to any continuation, continuation-in-part, division, reissue, reexamination, extension, renewal, or substitute thereof, and in and to any patent which may grant from such application(s).

I hereby authorize and request all government authorities in any country to issue patent(s) upon the aforesaid application, continuation, continuation-in-part, division, reissue, reexamination, extension, renewal, or substitute, to ABR/ASU, for the sole use and behalf of ABR/ASU, its successors, assigns, and legal representatives, to the full end of the term for which the patent(s) may be granted, the same as they would have been held and enjoyed by me had this assignment not been made.

I agree that, when requested, I will, without charge to ABR/ASU, but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient for securing and maintaining patents for the invention(s) in any and all countries and for vesting title thereto in ABR/ASU, its successors, assigns, and legal representatives or nominees.

I covenant with ABR/ASU, its successors, assigns, and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license, or other encumbrance.

QBPHX\1891846.I

For good and valuable consideration, the receipt of which is hereby acknowledged, I, TERRY L. ALFORD of Phoenix, AZ, have sold, assigned, and transferred, and do hereby sell, assign, and transfer unto ARIZONA BOARD OF REGENTS, acting for and on behalf of Arizona State University (ABR/ASU), a non-profit organization of the State of Arizona, having its principal office in Tempe, State of Arizona, United States of America, and its successors, assigns, and legal representatives, the entire right, title, and interest in and to certain invention(s) entitled FLEXIBLE ELECTRONICS USING ION IMPLANTATION TO ADHERE POLYMER SUBSTRATE TO SINGLE CRYSTAL SILICON SUBSTRATE, which is described, illustrated, and claimed in an application filed under the Patent Cooperation Treaty (PCT), Application No. PCT/US04/38702, filed November 17, 2004, together with the entire right, title and interest in and to the PCT application, and in and to any application for patent filed in any country claiming priority to, claiming the invention described in, or otherwise based on the PCT application, and in and to any continuation, continuation-in-part, division, reissue, reexamination, extension, renewal, or substitute thereof, and in and to any patent which may grant from such application(s).

I hereby authorize and request all government authorities in any country to issue patent(s) upon the aforesaid application, continuation, continuation-in-part, division, reissue, reexamination, extension, renewal, or substitute, to ABR/ASU, for the sole use and behalf of ABR/ASU, its successors, assigns, and legal representatives, to the full end of the term for which the patent(s) may be granted, the same as they would have been held and enjoyed by the had this assignment not been made.

I agree that, when requested, I will, without charge to ABR/ASU, but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient for securing and maintaining patents for the invention(s) in any and all countries and for vesting title thereto in ABR/ASU, its successors, assigns, and legal representatives or nominees.

I covenant with ABR/ASU, its successors, assigns, and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license, or other encumbrance.

Signature for TERRY L. ALFORD

STATE OF ARIZONA COUNTY OF MARICOPA

Given under my hand and notarial seal this

PUBLIC-ARIZONA

MARICOPA GOUNTY y Comm. Expires June 9, 2005

day of NEGRIMBER

Signature of Notary

QBPHX\1891846.1

For good and valuable consideration, the receipt of which is hereby acknowledged, I, DANIEL ADAMS of Tempe, AZ, have sold, assigned, and transferred, and do hereby sell, assign, and transfer unto ARIZONA BOARD OF REGENTS, acting for and on behalf of Arizona State University (ABR/ASU), a non-profit organization of the State of Arizona, having its principal office in Tempe, State of Arizona, United States of America, and its successors, assigns, and legal representatives, the entire right, title, and interest in and to certain invention(s) entitled FLEXIBLE ELECTRONICS USING ION IMPLANTATION TO ADHERE POLYMER SUBSTRATE TO SINGLE CRYSTAL SILICON SUBSTRATE, which is described, illustrated, and claimed in an application filed under the Patent Cooperation Treaty (PCT), Application No. PCT/US04/38702, filed November 17, 2004, together with the entire right, title and interest in and to the PCT application, and in and to any application for patent filed in any country claiming priority to, claiming the invention described in, or otherwise based on the PCT application, and in and to any patent which may grant from such application(s).

I hereby authorize and request all government authorities in any country to issue patent(s) upon the aforesaid application, continuation, continuation-in-part, division, reissue, reexamination, extension, renewal, or substitute, to ABR/ASU, for the sole use and behalf of ABR/ASU, its successors, assigns, and legal representatives, to the full end of the term for which the patent(s) may be granted, the same as they would have been held and enjoyed by me had this assignment not been made.

I agree that, when requested, I will, without charge to ABR/ASU, but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient for securing and maintaining patents for the invention(s) in any and all countries and for vesting title thereto in ABR/ASU, its successors, assigns, and legal representatives or nominees.

I covenant with ABR/ASU, its successors, assigns, and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license, or other encumbrance.

Signature 1	Addins for DANIEL ADAMS	
	F ARIZONA OF MARICOPA	)
aforesaid, before me	do hereby certify that DANIE this day in person and acknow	ADAMS, whose name is subscribed to the foregoing instrument, appeared wledged that he/she signed, sealed and delivered the instrument as his/her free and purposes therein set forth.  The proof of the County and State county and
	M. DUPRAZ NOTARY PUBLIC – ARIZONA MARICOPA COUNTY My Commission Expires August 18, 2006	Signature of Notary

State of AC2COC County of ACCCCCC
Subscribed and swom to before one one (Date)

(Notary Signature)

owy signature) M. Dubraz

QBPHX\1891846.1

PATENT REEL: 016368 FRAME: 0631