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Tab settings	— — — — — — — — — — — — — — — — — — —		
To the Honorable Commissioner of Patents and Trademarks: F	Please Record the attached original do suments or copy thereof.		
Name of conveying party(ies):	Name and address of receiving party(ies)		
VAIDYANATHAN, K. Ranji ORTEGA, Alfonso	Name: Advanced Ceramics Research, Inc.		
PLATERO, Marlene SKANDAKUMARAN, Prathib BOWER, Chad	Internal Address:		
Additional name of conveying party(ies) attached? Yes No			
3. Nature of conveyance:	Street Address: 3292 East Hemisphere Loop		
⊠ Assignment ☐ Merger			
☐ Security Agreement ☐ Change of Name	City: Tucson State: AZ Zip: 85706		
☐ Other	Additional Name(s) & address(e⊰) attached? ☐ Yes ☒ No		
Execution Date: August 1, 2004, October 26, 2004, September 26, 2004 and October 11, 2004			
Application number(s) or patent number(s):			
If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s)			
10/767,483			
Additional numbers attached? Yes No			
Name and address of party to whom correspondence concerning this document should be mailed:	6. Total number of applications and patents involved: 1		
	7. Total fee (37 CFR 3.41) \$ 40		
	☐ Enclosed		
22908	Authorized to be charged to deposit account		
	8. Deposit account number: 19-0733		
	(Attach duplicate copy of this page if paying by deposit account)		
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To the best of my knowledge and belief, the foregoing imformation is the and correct and any ⊵ttached cop.			
is a true copy of the original document.	November 3, 2004		
Rebecca P. Rokos. Name of Person Signing	Signature Date		
Total number of pages including o	over sheet, attachments, and documents;		

Mail documents to be recorded with required cover sheet information to Mail Stop Assignment, Recordation Services, Director of the US Patent and Trademark Office, PO Box 1450, Alexandria, VA 22313-1450

ASSIGNMENT

Attorney Docket No.:

003248.00093

Inventors:

¹ K. Ranji Vaidyanathan

Addresses:

2301 N. Sarnoff Drive Tucson, Arizona 85715

U.S.A.

² Alfonso Ortega 4050 E. Bujia Primera Tucson, Arizona 85718

U.S.A.

² Marlene Platero

3600 Vest Sunbonnet Place Tucsoi, Arizona 85742

U.S.A.

Inventors: Addresses:

⁴ Prathib Skandakumaran 5420 East Paradise Lane

Scottsdale, Arizona 85254

U.S.A.

⁵ Chad Bower

2255 W. Orange Grove Rd.,

#17206

Tucson, Arizona 85741

U.S.A.

Date of Execution of Application:

Filing Date:

January 28, 2004

U.S. Application No.

10/767,483

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:

Advanced Ceramics Research, Inc. of Tucson, Arizona, having a place of business at 3292 East Hemisphere Loop, Tucson, Arizona 85706

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:

MICROCHANNEL HEAT EXCHANGERS AND METHODS OF MANUFACTURING THE SAME

and identified as:

Case No. 03248.00093

in the offices of Banner & Witcoff, Ltd. 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 other, 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.

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

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Notary Public

Banner & Witcoff, Ltd.

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 assignees, 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 assignees, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignees, 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.

Date: Aubus 1 157, 2004	K. Ranji Validyanathan			
State of Arizona) County of Pima Pina L) ss:	K. Kailji Valdyallatii III 🗸			
County of Pima PiNAL)				
This day of	004, before me personally came the above-named, K. Ranjine individual who executed the foregoing assignment, who his own free will for the purposes herein set forth.			
Nogary Public	My Commission Expires: OFFICIAL SEAL JUDITH A. DRESCHER NOTAFY PUBLIC-ARIZONA PINAL COUNTY My Comm. Exp. April 7, 2005			
Date:, 2004	Alfonso Ortega			
State of Arizona)) ss: County of Pima)				
County of Pima)				
This day of 2004, before me personally came the above-na ned, Alfonso Ortega, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he executed the same of his own free will for the purposes herein set forth.				
Notary Public	My Commission Expires:			
Date: <u>Augus</u> 7 , 2004	Marlene Platero			
State of Arizona) County of Pinna PiNAL) ss:				
This 157 day of August 2004, be me personally known as the individual who execute executed the same of her own free will for the purpose.	perfore me personally came the above-named, Marlene Platero, to seed the foregoing assignment, who acknowledged to me that she coses herein set forth.			
Judith B. Drescher 1	OFFICIAL SEAL OUDITH A. DRESC.			

Page 2 of 3

NOTARY PUBLIC-ARIZ PINAL COUNT My Comm. Exp. April 7, 2005

Date: ______, 2004

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 assigned, 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 assignees, 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 assignees, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignees, 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.

State of Arizona)	K. Ranji Vaidyanathan
) ss: County of Pima)	
Vaidyanathan, to me personally	2004, before me personally came the above-named, K. Ranji known as the individual who executed the foregoing assignment, who det the same of his own free will for the purposes herein set forth.
Notary Public	My Commission Expires:
Date: Oct 2 4 ,2	
State of Arizona)) ss: 44	Alfonso Ortega 67 04 9315 My Comm. Exps. 730, 2008
	The state of the s
This 26 day of cother me personally known as the individence executed the same of his own free w	26cf 2004, before me personally came the above-named, Alfonso Ortega, to dual who executed the foregoing assignment, who acknowledged to the that he will for the purposes herein set forth.
Notary Public	Sec 4 My Commission Expires: 4/30/06
Date:, 2	Marlene Platero
State of Arizona)) ss: County of Pima)	
This day of me personally known as the individu executed the same of her own free w	2004, before me personally came the above-named, Marlene Platero, to nal who executed the foregoing assignment, who acknowledged to me that she will for the purposes herein set forth.
Notary Public	My Commission Expires:
Banner & Witcoff 1 td	

Page 2 of 3

Date: September 26, 2004	Peathys
•	Prathib Skandakurnaran
State of Arizona)	
County of Maricopa)	
This 16 day of September Skandakumaran, to me personally known	2r 2004, before me personally came the above-named, Prathit as the individual who executed the foregoing assignment, who same of his own free will for the purposes herein set forth.
Standy Holey	OFFICIAL SEAL WENDY HALEY NOTARY PUBLIC STATE AND Expires:
Date:, 2004	Chad Bower
State of Arizona)	Citad Bowei
) ss: County of Pima)	
This day of personally known as the individual wh executed the same of his own free will fo	2004, before me personally came the above-named, Chad Bower, to me o executed the foregoing assignment, who acknowledged o me that he or the purposes herein set forth.
	My Commission Expires:
Notary Public	

Banner & Witcoff, Ltd.

Date:		, 2004	Prathib Skandaku naran
State of Arizona)) ss:	,	
County of Maricopa	Ś		
Skandakumaran, to n	ne personally	known as the individual	ne personally came the above-named, Prathip I who executed the foregoing assignment, who free will for the purposes herein set forth.
			My Commission Expires:
Notary Public Date: 0ct 11	tn :	, 2004	Chad Bower Bon
State of Arizona County of Pima This)) ss:) day of <u>O</u>	MARC MOTARY PI	FIGIAL SEAL AA R. GAMAS PUBLIC - ARIZONA WA COUNTY Expires Out. 30, 2008 The personally came the above-named, Charl Bower, to me
personally known as	the individual	ual who executed the s will for the purposes he	foregoing assignment, who acknowledged to me that he
Novan Rublic (fama	<u>11 —</u>	My Commission Expires: Oct 30,2006.

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