

05-17-1999

SHEET Patents Only

	Honorable Commissioner of Pa record the attached original doc	10103813		orney Dkt. No.: 540-246	
1.	Name of conveying party(ies):	2	Name	e and address of receiving par	rty(ies):
Vijaya	Edward A. Hill kumar R. Dhuler	P	MCN 021 Cornwal .O. Box 1288 esearch Triar	lis Road	709-2889
Addition	nal name(s) of conveying party(ies) attached?	Yes No 🛛			
3.	Nature of conveyance:				
	Assignment Merger Security Agreement Change of Name Other Execution Date: May 3, 1999	A	dditional nar	ne(s) & address(es) attached?	?Yes 🗌 No 🔀
4.	Application No	Patent No	29/30	3996	
	If this document is being filed toge	ther with a new applicat	I on, the exect	ution date of the application	
	is: <u>May 3, 1999</u>		,		
	1s: <u>May 3, 1999</u>Additional numbers attached? Yes	🗌 No 🔀	,		
5.		n correspondence 6.	Total	number of applications and p	patents involved:
5.	Additional numbers attached? Yes Name and address of party to whom concerning document should be ma Frank J. Pita ALSTON & BIRD LLP P. O. Drawer 34009	n correspondence 6.			patents involved:
5.	Additional numbers attached? Yes Name and address of party to whom concerning document should be ma Frank J. Pita ALSTON & BIRD LLP	n correspondence 6.	Total <u>1</u>		
	Additional numbers attached? Yes Name and address of party to whom concerning document should be ma Frank J. Pita ALSTON & BIRD LLP P. O. Drawer 34009 Charlotte, NC 28234-4009	n correspondence 6. siled:	Total <u>1</u> Total X	number of applications and p fee (37 CFR 3.41) <u>\$40.00</u> Enclosed	to deposit account
99 BALE	Additional numbers attached? Yes Name and address of party to whom concerning document should be ma Frank J. Pita ALSTON & BIRD LLP P. O. Drawer 34009 Charlotte, NC 28234-4009	n correspondence 6. siled: 7.	Total <u>1</u> Total Depos	number of applications and p fee (37 CFR 3.41) <u>\$40.00</u> Enclosed Authorized to be charged sit account number: 16-0605	to deposit account
199 BALE	Additional numbers attached? Yes Name and address of party to whom concerning document should be ma Frank J. Pita ALSTON & BIRD LLP P. O. Drawer 34009 Charlotte, NC 28234-4009 Charlotte, NC 28234-4009	n correspondence 6. ailed: 7. 8. DO NOT USE	Total <u>1</u> Total ⊠ Depos THIS SPACE	number of applications and p fee (37 CFR 3.41) <u>\$40.00</u> Enclosed Authorized to be charged sit account number: 16-0605	to deposit account
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RTA01/2063054v1

PATENT REEL: 9944 FRAME: 0083

ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

MCNC 3021 Cornwallis Road Research Triangle Park, North Carolina 27709

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the invention in "MULTI-DIMENSIONAL SCALABLE DISPLACEMENT ENABLED MICROELECTROMECHANICAL ACTUATOR STRUCTURES AND ARRAYS"

as set forth in this United States Patent Application

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executed concurrently herewith executed on

Application No. ___; filed

said application for United States Letters Patent, including all divisional, renewal, substitute, continuation, nonprovisionals, continuation-in-parts, and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith, this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be of said inventions, and to testify in any proceedings relating to said inventions, patent applications, and/or Letters Patent.

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

5/3/99 Date

Edward A. Hill

State of NORTH CAROLINA County of Duch an

I, Jandea H. Helmi, a Notary Public for said County and State, do hereby certify that Edward A. Hill personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

peets my hand and official seal, this the 3 day of 7, 1999. Notary Public Sea Official pires 1-31-2093

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5131 99 Date

VEM Ohnter

Vijayakumar R. Dhuler

State of NORTH CAROLINA

County of Ducham

I, <u>Sandra H. Helms</u>, a Notary Public for said County and State, do hereby certify that Vijayakumar R. Dhuler personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

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Witness my hand and official seal, this the <u>3</u> day of <u>mark</u>, 1999.

(Official Seal)

Hema andre Notary Public

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RECORDED: 05/03/1999