

09-10-1999

ASSIGNMENT RI



IEET Patents Only

To the Honorable Commissioner of Patents

101140402

Dkt. No.: 540-268

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Vijayakumar R. Dhuler
Mark David Walters

9.1.99

2. Name and address of receiving party(ies):

MCNC
3021 Cornwallis Road
P.O. Box 12889
Research Triangle Park, North Carolina 27709-2889Additional name(s) of conveying party(ies) attached? Yes ☐ No ☒

3. Nature of conveyance:

- ☒ Assignment
☐ Merger
☐ Security Agreement
☐ Change of Name
☐ Other

Execution Date: August 30, 1999; August 31, 1999,
respectivelyAdditional name(s) & address(es) attached? Yes ☐ No ☒

4. Application No. _____

Patent No. _____

If this document is being filed together with a new application, the execution date of the application is: August 30, 1999; August 31, 1999, respectivelyAdditional numbers attached? Yes ☐ No ☒

5. Name and address of party to whom correspondence concerning document should be mailed:

Kevin R. Lyn
ALSTON & BIRD LLP
P. O. Drawer 34009
Charlotte, NC 28234-4009

6. Total number of applications and patents involved:

17. Total fee (37 CFR 3.41) \$40.00

- ☒ Enclosed
☐ Authorized to be charged to deposit account

8. Deposit account number: 16-0605

DO NOT USE THIS SPACE

9. Statement and signature

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*Kevin R. Lyn, Reg. No. 42,818
Name of Person Signing

Signature

Date

9-1-99

Total number of pages including cover sheet, attachments and document: 4

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40.00 DP

PATENT
REEL: 010218 FRAME: 0123

Attorney's Docket No. 540-268

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

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P.O. Box 12889
Research Triangle Park, NC 27709-2889

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 **"MICROELECTROMECHANICAL VALVE HAVING SINGLE CRYSTALLINE COMPONENTS AND ASSOCIATED FABRICATION METHOD"**

as set forth in this United States Patent Application

☒ 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.

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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.

8/30/99
Date

Vijayakumar R. Dhuler
Vijayakumar R. Dhuler

State of North Carolina
County of Durham

I, Sandra Helms, 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.

Witness my hand and official seal, this the 30 day of August, 1999.



Sandra H. Helms
Notary Public

My commission expires 1-31-2003

Attorney's Docket No. 540-268

8/31/99
Date

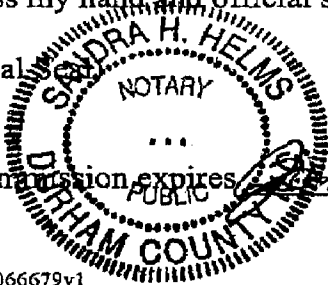
Mark David Walters
Mark David Walters

State of North Carolina
County of Durham

I, Sandra H. Helms, a Notary Public for said County and State, do hereby certify that Mark David Walters personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the 31 day of August, 1999.

(Official



My commission expires

February 31, 2003

Sandra H. Helms
Notary Public

RTA01/2066679v1