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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

### 1. Name of conveying party(ies)/Execution Date(s):

Volker Materna

Execution Date(s) September 15, 2005

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

### 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

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

Name: Robert Bosch GmbH

Internal Address: \_\_\_\_\_

Street Address: \_\_\_\_\_

City: Stuttgart

State: \_\_\_\_\_

Country: Germany

Zip: \_\_\_\_\_

Additional name(s) & address(es) attached? ☐ Yes ☒ No

### 4. Application or patent number(s):

A. Patent Application No.(s)

11/182,299

☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Neil A. Steinberg

Internal Address: \_\_\_\_\_

Street Address: 2665 Marine Way, Suite 1150

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State: CA Zip: 94043

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### 6. Total number of applications and patents involved:

1

### 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card  
☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

### 8. Payment Information

a. Credit Card Last 4 Numbers \_\_\_\_\_

Expiration Date \_\_\_\_\_

b. Deposit Account Number 50-0763

Authorized User Name Neil A. Steinberg

### 9. Signature:



Signature

September 20, 2005

Date

Neil A. Steinberg

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

3

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**

**REEL: 016828 FRAME: 0640**

**700212023**

CH \$40.00 600763 11182299

**ASSIGNMENT**  
(Docket No. 207.013-US)

Inventors: **Zhiyu Pan**  
**Rob Norris Candler**  
**Markus Lutz**  
**Aaron Partridge**  
**Volker Materna**  
**Gary Yama**  
**Wilhelm Frey**

Application Serial No.: **11/182,299**

Filing Date: **July 15, 2005**

Title: **In-Plane Mechanically Coupled Microelectromechanical Tuning Fork Resonators**

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

**Robert Bosch GmbH**

its successors and assigns, the entire right, title and interest in the inventions and/or improvements of the undersigned disclosed in the above-referenced application for Letters Patent of the United States, and in said application and any and all other applications, both United States and foreign, which may be filed, either solely or jointly with others, on said inventions and/or improvements, and in any and all patents 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 assign to said assignee the priority right provided by the International Convention.

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

I, the undersigned, warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interests herein assigned.

I, the undersigned, for said considerations 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 inventions and/or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any patents that may be granted on said application and any and all applications and other documents for patents in foreign countries on said inventions and/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 inventions and/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 said patents, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby all said patents will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said patents 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: 15<sup>th</sup> Sept 2005

V. Materna  
Volker Materna