

# PATENT ASSIGNMENT

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Tjalf PIRK	05/02/2011
Stefan PINTER	05/02/2011
Joerg MUCHOW	05/02/2011
Joachim FRITZ	05/03/2011
Christoph FRIESE	05/02/2011
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<b>Name:</b>	Robert Bosch GmbH
<b>Street Address:</b>	Postfach 30 02 20
<b>City:</b>	Stuttgart
<b>State/Country:</b>	GERMANY
<b>Postal Code:</b>	DE-70442
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	13124468
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<b>ATTORNEY DOCKET NUMBER:</b>	10191/6471
<b>NAME OF SUBMITTER:</b>	Gerard A. Messina
Total Attachments: 7	

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**PATENT**  
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ASSIGNMENT

WHEREAS, we,

**Tjalf PIRK**  
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Federal Republic of Germany  
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**Stefan PINTER**  
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**Joerg MUCHOW**  
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Federal Republic of Germany  
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**Joachim FRITZ**  
~~Lutherstr. 32~~  
DE-72770 Reutlingen  
Federal Republic of Germany  
Citizenship: Federal Republic of Germany

*Hausstr. 60 JF*  
*DE-72076 Tübingen JF*

and

**Christoph FRIESE**  
Negelerstr. 22  
DE-72764 Reutlingen  
Federal Republic of Germany  
Citizenship: Federal Republic of Germany

have made inventions and discoveries in **CASCADED MICROMECHANICAL ACTUATOR STRUCTURE**, for which an application for Letters Patent was filed as PCT International Application No. PCT/EP2009/060865, on August 24, 2009, and

WHEREAS **ROBERT BOSCH GMBH**, having a place of business at **Postfach 30 02 20, 70442 Stuttgart, Federal Republic of Germany**, and who, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited,

NOW, THEREFORE, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservations:

1. Assign, transfer, and convey to Assignee the entire right, title, and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of

America, any and all other applications for Letters Patent on said inventions and discoveries, including all divisional, renewal, substitute, and continuation applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications, and said Letters Patent.

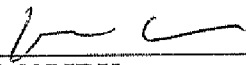
2. Authorize Assignee to file patent applications in any or all countries for any or all of said inventions and discoveries in our names or in the name of Assignee or otherwise as Assignee may deem advisable, under an International Convention or otherwise.

3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title, and interest therein or otherwise as Assignee may direct.

4. Warrant that we have not conveyed to others any right, title, or interest in said inventions, discoveries, applications, or patents or any license to use the same or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; that we have good right to assign the same to Assignee without encumbrance; and that we are aware of no claim to the contrary.

5. Bind our heirs, legal representatives, and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications, and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives, and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; to furnish Assignee with any and all documents, photographs, models, samples, and other physical exhibits in our control or in the control of our heirs, legal representatives, or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries; and to testify to the same in any interference, arbitration, or litigation.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this  
2<sup>nd</sup> day of May, 2011.

  
\_\_\_\_\_  
Tjalf PIRK

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this  
2nd day of May, 2011.

  
\_\_\_\_\_  
Stefan/PINTER

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this  
2 day of may, 2011.

Joerg Muchow  
Joerg MUCHOW

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this  
3 day of May, 2011.

  
\_\_\_\_\_  
**Joachim FRITZ**



IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this  
2 day of may, 2011.

  
\_\_\_\_\_  
Christoph FRIESE