

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Jakub Raczowski</td> <td>11/05/2012</td> </tr> <tr> <td>Piet Wambacq</td> <td>11/05/2012</td> </tr> </tbody> </table>		Name	Execution Date	Jakub Raczowski	11/05/2012	Piet Wambacq	11/05/2012				
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>IMEC</td> </tr> <tr> <td>Street Address:</td> <td>Kapeldreef 75</td> </tr> <tr> <td>City:</td> <td>Leuven</td> </tr> <tr> <td>State/Country:</td> <td>BELGIUM</td> </tr> <tr> <td>Postal Code:</td> <td>3001</td> </tr> </table>		Name:	IMEC	Street Address:	Kapeldreef 75	City:	Leuven	State/Country:	BELGIUM	Postal Code:	3001
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CORRESPONDENCE DATA											
<p>Fax Number: 3129130002 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 312-913-0001 Email: mueller@mbhb.com Correspondent Name: McDonnell Boehnen Hulbert & Berghoff LLP Address Line 1: 300 South Wacker Drive Address Line 4: Chicago, ILLINOIS 60606</p>											
ATTORNEY DOCKET NUMBER:	11-1352-US										
NAME OF SUBMITTER:	Michael D. Anderson										
<p>Total Attachments: 2 source=Assignment#page1.tif source=Assignment#page2.tif</p>											

CH \$40.00 13654090

ASSIGNMENT

Case No.: 11-1352-US

Serial No.: 13/654,090

Inventor(s): Jakub RACKOWSKI, Piet WAMBACQ

Date of Execution
of Application:

RACKOWSKI
JD

Filing Date: October 17, 2012

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:

IMEC
Kapeldreef 75
3001 Leuven, Belgium

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:

Hybrid Beamforming for a Wireless Communication Device

and identified as:

Case No. 11-1352-US

in the offices of McDONNELL BOEHNEN HULBERT & BERGHOFF LLP 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 others, 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.

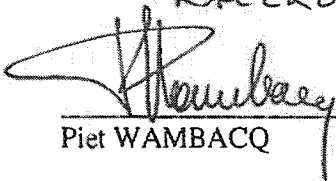
The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

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 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 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, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, 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.

Signature:  Date: 05/11/2012
Name: Jakub RACKOWSKI
RACKOWSKI 

Signature:  Date: 05/11/2012
Name: Piet WAMBACQ