

## PATENT ASSIGNMENT COVER SHEET

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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>
TOM BAECKSTROEM	02/03/2016
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MARKUS MULTRUS	02/01/2016
SASCHA DISCH	02/01/2016
KONSTANTIN SCHMIDT	02/03/2016
GRZEGORZ PIETRZYK	02/03/2016
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14964245
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<b>NAME OF SUBMITTER:</b>	ROBERT P. ZIEMIAN
<b>SIGNATURE:</b>	/Robert P. Ziemian/
<b>DATE SIGNED:</b>	02/26/2016

**Total Attachments: 3**

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## ASSIGNMENT BY INVENTORS

**THIS ASSIGNMENT**, made this ..... day of ....., by Tom Baeckstroem, Benjamin Schubert, Markus Multus, Sascha Disch, Konstantin Schmidt, and Grzegorz Pietrzyk (hereinafter referred to as Assignors), residing at Bauerngasse 8-12, 90443 Nuernberg, GERMANY; Zickstrasse 6, 90429 Nuernberg, GERMANY; Etzlaubweg 7, 90469 Nuernberg, GERMANY; Wilhelmstrasse 70, 90766 Fuerth, GERMANY; Heervagenstrasse 21, 90489 Nuernberg, GERMANY; and Gustav-Weisskopf-Weg 15, 90411 Nuernberg, GERMANY, respectively;

**WHEREAS**, Assignors have invented certain new and useful improvements in an **APPARATUS AND METHOD FOR AUDIO SIGNAL ENVELOPE ENCODING, PROCESSING, AND DECODING BY MODELLING A CUMULATIVE SUM REPRESENTATION EMPLOYING DISTRIBUTION QUANTIZATION AND CODING**, set forth in a non-provisional application for Letters Patent of the United States, already filed on December 9, 2015, as US Application No. 14/964,245; and

**WHEREAS**, Fraunhofer-Gesellschaft zur Foerderung der angewandten Forschung e.V., a Corporation organized under and pursuant to the laws of Germany having its principal place of business at Hansastrasse 27c, 80686 Muenchen, GERMANY (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

**NOW, THEREFORE**, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all related United States provisional patent applications, any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and

the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said non-provisional application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner for Patents and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

HAYNES AND BOONE, LLP

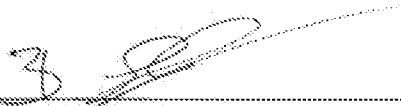
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AND Assignors acknowledge an obligation of assignment of this invention to Assignees at the time the invention was made.

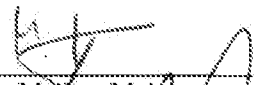
Date: 3.2.2016

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Date: Feb 14, 2016

Signature:   
Benjamin Schubert

Date: Feb 14, 2016

Signature:   
Markus Mulhaus

Date: 2/1/2016

Signature:   
Sascha Disch

Date: 3.2. 2016

Signature:   
Konstantin Schmidt

Date: 3.2. 2016

Signature:   
Grzegorz Pietrzyk