

## 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>
FRIEDBERT VAN RAAY	09/13/2017
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<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16428918
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<b>SIGNATURE:</b>	/Elizabeth A. Bauer/
<b>DATE SIGNED:</b>	10/15/2019
<b>Total Attachments: 2</b>	
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## ASSIGNMENT and CONFIRMATION

I, Dr. Friedbert van Raay ("ASSIGNOR") hereby confirm the sale, assignment, and transfer to Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e. V. ("Fraunhofer-Gesellschaft"), an eingetragener Verein in Germany having a place of business at Hansastrasse 27c, Munich 80686, Germany, and its successors and assigns (collectively, "ASSIGNEE") of all of my individual and joint right, title and interest throughout the world in and to any and all inventions and improvements that are the subject of and described in the following patent documents related to matrix power amplifier:

Fraunhofer Reference #	Country	Serial #	Filed Date
AF-14 F55820 WO	PCT	PCT/EP2016/052386	4 Feb. 2016

The foregoing sale, assignment, and transfer occurred by operation of an employment agreement between me and my employer. Should I have any remaining interest, I hereby sell for 1\$, assign, and transfer any right, title or interest I may have in said inventions and improvements anywhere in the world to ASSIGNEE.

This assignment and confirmation includes the foregoing patent applications and/or patents; all legal equivalents thereof in any country and all patents issuing therefrom; all patents, utility models, and design registrations granted for any of said inventions and improvements throughout the world; and the right to claim priority based on the filing date of the foregoing patent application or patent under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes. We authorize ASSIGNEE to apply in all countries for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for the assigned inventions and improvements.


The foregoing assignments have been made for good and valuable consideration, the receipt of which is hereby acknowledged, and in accordance with the employment agreements existing at the time said inventions and improvements were made.

I hereby represent and covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with the assignment of said inventions and improvements to ASSIGNEE.

I further covenant for myself and my heirs, legal representatives and assigns to provide to ASSIGNEE promptly upon the request of ASSIGNEE all pertinent facts and documents not already in the possession of ASSIGNEE relating to said invention and improvements and said patents and legal equivalents as may be known and accessible to me and promptly to execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue or enforce said application, said inventions and improvements and said patents and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

It is to be understood that this Assignment and Confirmation does not change, modify, or otherwise impact any rights or obligations between me, the inventor and ASSIGNEE arising under i) the German

Employee Inventions Act, ii) internal regulations of the Fraunhofer-Gesellschaft, and/or iii) any prior agreement including but not limited to any employment agreement(s).

Date	Signature of Inventor(s)	Location
<u>Sept. 13<sup>th</sup></u> , 2017	<u></u> Dr. Friedbert van Raay	<u>FREIBURG</u>

In the name of Fraunhofer-Gesellschaft, I hereby confirm acceptance of the rights, title and interests described herein.

Date	For Fraunhofer-Gesellschaft	Location
<u>11.08.</u> , 2017	<u></u>	<u>Munich</u>

**Dr. Susanne Schollweck**  
Head of Patents and Licensing  
Fraunhofer-Gesellschaft zur Förderung  
der angewandten Forschung e.V.