#### 505231116 12/11/2018

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

**EPAS ID: PAT5277886** 

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
DR. LUKE CIRILLO	11/07/2018
ANDREAS LAGLER	11/07/2018
ALEXANDER BREITENFELD	11/20/2018

#### **RECEIVING PARTY DATA**

Name:	Rohde & Schwarz GmbH & Co. KG	
Street Address:	Muehldorfstrasse 15	
City:	Munich	
State/Country:	GERMANY	
Postal Code: 81671		

### **PROPERTY NUMBERS Total: 1**

Property Type	Number	
Application Number:	16159350	

#### CORRESPONDENCE DATA

Fax Number: (206)224-0779

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (206)682-8100 Email: efiling@cojk.com

BRANDON C. STALLMAN, ESQ. **Correspondent Name:** 

Address Line 1: CHRISTENSEN O'CONNOR JOHNSON KINDNESS

Address Line 2: 1201 THIRD AVENUE, SUITE 3600 Address Line 4: SEATTLE, WASHINGTON 98101-3029

ATTORNEY DOCKET NUMBER: PRNP167571		
NAME OF SUBMITTER: MARZENA DIXON		
SIGNATURE: /Marzena Dixon/		
DATE SIGNED:	12/11/2018	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

#### **Total Attachments: 6**

source=67571 Combined Declarations Assignment#page1.tif source=67571 Combined Declarations Assignment#page2.tif

**PATENT** REEL: 047747 FRAME: 0304 505231116

source=67571\_Combined\_Declarations\_Assignment#page3.tif
source=67571\_Combined\_Declarations\_Assignment#page4.tif
source=67571\_Combined\_Declarations\_Assignment#page5.tif
source=67571\_Combined\_Declarations\_Assignment#page6.tif

PATENT REEL: 047747 FRAME: 0305 Application No.: US 16/159,350 Assignee's Reference: E06150

Reference Assignee's local lawyer: R 2506 US

### COMBINED DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

Title of invention:

METHOD FOR DETERMINING PHASE NOISE IN A PERIODICALLY MODULATED SIGNAL

#### DECLARATION

As the below named inventor, I hereby declare that:

This declaration is directed to the following application for patent (the "Application):

United States application or PCT international application number US 16/159,350, filed on 2018-10-12.

The above identified Application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the Application.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment made on (if applicable).

I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, U.S. Code of Federal Regulations, Section 1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

#### ASSIGNMENT

In return for good and valuable compensation / consideration, the receipt of which is hereby acknowledged, I, the undersigned, hereby:

1 of 2

Application No.: US 16/159,350 Assignee's Reference: E06150

Reference Assignee's local lawyer: R 2506 US

sell, assign, and transfer to Rohde & Schwarz GmbH & Co. KG ("Assignee"), a corporation of Germany, having a principal place of business at Muehldorfstrasse 15, Munich, Germany, 81671, and its successors, assigns and legal representatives, the entire right, title, and interest (for the United States and all foreign countries) in and to (i) the Application, including any and all improvements that are disclosed in the Application, and (ii) all divisional, continuing, substitute, renewal, reissue, and all other patent applications, which have been or are subsequently filed in the United States and all foreign countries, based on or claiming priority to the Application, or based on any of said improvements, and (iii) all original and reissued patents that have been or are subsequently issued in the United States and all foreign countries from the Application or based on any of said improvements, and (iv) all rights of priority resulting from the filing of the Application in the United States and all foreign countries; and

agree that the Assignee may apply for and receive a patent or patents based on the Application and for any of said improvements in its own name, and agree, when requested, without charge to, but at the expense of, the Assignee, or its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment: to execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications based on or claiming priority to the Application, or based on any and all of said improvements; to execute all associated assignments and powers of attorney; to communicate to the Assignee, and its successors, assigns and legal representatives, all facts known to me relating to the Application and said improvements, and the history thereof; and to generally assist the Assignee, and its successors, assigns and legal representatives, in securing and maintaining proper patent protection for said improvements, and in vesting title to the Application, and all applications for patent and all patents based on said improvements, in the Assignee, and its successors, assigns and legal representatives; and

covenant with the Assignee, and its successors, assigns and legal representatives, that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by me, and that full right to convey the same as herein expressed is possessed by me.

It is expressly agreed by both Assignor and Assignee that this Assignment fully conveys and transfers from Assignor to Assignee the right to sue for any and all patent infringement occurring prior to and after the date of this Assignment.

Full Name: Dr. Luke Cirillo

ate Inventor

7/11/2018

# ( )

Application No.: US 16/159,350 Assignee's Reference: E06150

Reference Assignee's local lawyer: R 2506 US

# COMBINED DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

Title of invention:

METHOD FOR DETERMINING PHASE NOISE IN A PERIODICALLY MODULATED SIGNAL

#### **DECLARATION**

As the below named inventor, I hereby declare that:

This declaration is directed to the following application for patent (the "Application):

United States application or PCT international application number US 16/159,350, filed on 2018-10-12.

The above identified Application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the Application.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment made on (if applicable).

I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, U.S. Code of Federal Regulations, Section 1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

#### **ASSIGNMENT**

In return for good and valuable compensation / consideration, the receipt of which is hereby acknowledged, I, the undersigned, hereby:

1 of 2

 $\langle \cdot, \cdot \rangle \cdot \cdot$ 

Application No.: US 16/159,350 Assignee's Reference: E06150

Full Name: Andreas Lagler

Reference Assignee's local lawyer: R 2506 US

sell, assign, and transfer to Rohde & Schwarz GmbH & Co. KG ("Assignee"), a corporation of Germany, having a principal place of business at Muehldorfstrasse 15, Munich, Germany, 81671, and its successors, assigns and legal representatives, the entire right, title, and interest (for the United States and all foreign countries) in and to (i) the Application, including any and all improvements that are disclosed in the Application, and (ii) all divisional, continuing, substitute, renewal, reissue, and all other patent applications, which have been or are subsequently filed in the United States and all foreign countries, based on or claiming priority to the Application, or based on any of said improvements, and (iii) all original and reissued patents that have been or are subsequently issued in the United States and all foreign countries from the Application or based on any of said improvements, and (iv) all rights of priority resulting from the filing of the Application in the United States and all foreign countries; and

agree that the Assignee may apply for and receive a patent or patents based on the Application and for any of said improvements in its own name, and agree, when requested, without charge to, but at the expense of, the Assignee, or its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment: to execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications based on or claiming priority to the Application, or based on any and all of said improvements; to execute all associated assignments and powers of attorney; to communicate to the Assignee, and its successors, assigns and legal representatives, all facts known to me relating to the Application and said improvements, and the history thereof; and to generally assist the Assignee, and its successors, assigns and legal representatives, in securing and maintaining proper patent protection for said improvements, and in vesting title to the Application, and all applications for patent and all patents based on said improvements, in the Assignee, and its successors, assigns and legal representatives; and

covenant with the Assignee, and its successors, assigns and legal representatives, that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by me, and that full right to convey the same as herein expressed is possessed by me.

It is expressly agreed by both Assignor and Assignee that this Assignment fully conveys and transfers from Assignor to Assignee the right to sue for any and all patent infringement occurring prior to and after the date of this Assignment.

 €7.14.7048

 Date

 Inventor's Signature

Application No.: US 16/159,350 Assignee's Reference: E06150

Reference Assignee's local lawyer: R 2506 US

## COMBINED DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

Title of invention:

METHOD FOR DETERMINING PHASE NOISE IN A PERIODICALLY MODULATED SIGNAL

#### DECLARATION

As the below named inventor, I hereby declare that:

This declaration is directed to the following application for patent (the "Application):

United States application or PCT international application number US 16/159,350, filed on 2018-10-12.

The above identified Application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the Application.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment made on (if applicable).

I acknowledge the duty to disclose all information known to me to be material to patentability as defined in Title 37, U.S. Code of Federal Regulations, Section 1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

#### **ASSIGNMENT**

In return for good and valuable compensation / consideration, the receipt of which is hereby acknowledged, I, the undersigned, hereby:

1 of 2

Application No.: US 16/159,350 Assignee's Reference: E06150

Reference Assignee's local lawyer: R 2506 US

sell, assign, and transfer to Rohde & Schwarz GmbH & Co. KG ("Assignee"), a corporation of Germany, having a principal place of business at Muehldorfstrasse 15, Munich, Germany, 81671, and its successors, assigns and legal representatives, the entire right, title, and interest (for the United States and all foreign countries) in and to (i) the Application, including any and all improvements that are disclosed in the Application, and (ii) all divisional, continuing, substitute, renewal, reissue, and all other patent applications, which have been or are subsequently filed in the United States and all foreign countries, based on or claiming priority to the Application, or based on any of said improvements, and (iii) all original and reissued patents that have been or are subsequently issued in the United States and all foreign countries from the Application or based on any of said improvements, and (iv) all rights of priority resulting from the filing of the Application in the United States and all foreign countries; and

agree that the Assignee may apply for and receive a patent or patents based on the Application and for any of said improvements in its own name, and agree, when requested, without charge to, but at the expense of, the Assignee, or its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment: to execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications based on or claiming priority to the Application, or based on any and all of said improvements; to execute all associated assignments and powers of attorney; to communicate to the Assignee, and its successors, assigns and legal representatives, all facts known to me relating to the Application and said improvements, and the history thereof; and to generally assist the Assignee, and its successors, assigns and legal representatives, in securing and maintaining proper patent protection for said improvements, and in vesting title to the Application, and all applications for patent and all patents based on said improvements, in the Assignee, and its successors, assigns and legal representatives; and

covenant with the Assignee, and its successors, assigns and legal representatives, that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by me, and that full right to convey the same as herein expressed is possessed by me.

It is expressly agreed by both Assignor and Assignee that this Assignment fully conveys and transfers from Assignor to Assignee the right to sue for any and all patent infringement occurring prior to and after the date of this Assignment.

2 of 2

Hull	Name:	Alexander	Breitenfeld	

20.11.2018 A Distribute

Date Inventor's Signature

REEL: 047747 FRAME: 0311

**RECORDED: 12/11/2018**