505712787 10/08/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5759597

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
THOMAS G. PRATT	10/07/2019
ROBERT DANIEL KOSSLER	10/02/2019
JEFFREY G. MUELLER	10/03/2019
JOSEPH LAWRENCE LOOF	10/02/2019

RECEIVING PARTY DATA

Name:	UNIVERSITY OF NOTRE DAME DU LAC	
Street Address:	1400 EAST ANGELA BOULEVARD	
City:	SOUTH BEND	
State/Country:	INDIANA	
Postal Code:	46617	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15134370

CORRESPONDENCE DATA

Fax Number: (949)760-9502

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.

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Email: efiling@knobbe.com

Correspondent Name: KNOBBE, MARTENS, OLSON & BEAR, LLP

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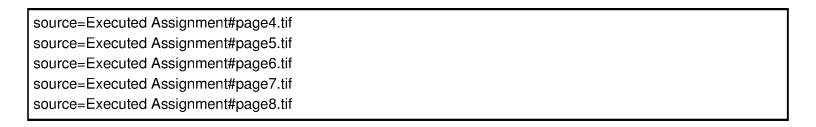
Address Line 4: IRVINE, CALIFORNIA 92614

ATTORNEY DOCKET NUMBER:	UNDRF.007A
NAME OF SUBMITTER:	DEREK BAYLES
SIGNATURE:	/Derek Bayles/
DATE SIGNED:	10/08/2019

Total Attachments: 8

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PATENT 505712787 REEL: 050655 FRAME: 0386



Application No.: 15/134,370 Docket Number: UNDRF.007A Filing Date: April 20, 2016 Page 1 of 2

Filling Date. April 20, 2010

ASSIGNMENT

WHEREAS, Thomas G. Pratt, residing at Niles, MI; Robert Daniel Kossler, residing at South Bend, IN; Jeffrey G. Mueller, residing at South Bend, IN; and Joseph Lawrence Loof, residing at Notre Dame, IN, (individual(s) hereinafter "ASSIGNOR"), invented certain new and useful improvements, technology, inventions, developments, ideas, ornamental design or discoveries related to the USE OF COHERENT SIGNAL DISPERSION FOR SIGNAL SOURCE ASSOCIATION (collectively hereinafter referred to as the "Work") for which an application for Letters Patent in the United States has been prepared for filing (identified above) with the United States Patent and Trademark Office (hereinafter the "Application");

AND WHEREAS, University of Notre Dame du Lac (hereinafter the "ASSIGNEE") desires to acquire the entire right, title, and interest in and to the Application and the Work:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in the Application and the Work, including all provisional applications relating thereto (including but not limited to U.S. Provisional Application No(s). 62/150,155, 62/150,145 and 62/325,434, filed April 20, 2015, April 20, 2015 and April 20, 2016 (respectively if plural applications)), and all nonprovisional applications claiming priority thereto, including, all divisions, continuations, continuations-in-part, reissues, and reexaminations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Work, and testify in any legal proceeding, assist in the preparation of any other provisional or non-provisional applications relating to the Application and the Work or any improvements made thereto, sign all lawful papers, authorize the filing of and execute and make all rightful oaths and/or declarations in connection with the Application and the Work including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Work in all countries.

Application No.: 15/134,370 Filing Date: April 20, 2016	Docket Number: UNDRF,007A Page 2 of 2
Legal Name of Inventor, Thomas G. Pratt Signature	Date: <u>/০- ۵</u> 7- 201 <u>1</u>
Legal Name of inventor: Robert Daniel Kossler Signature:	Date:
Legal Name of inventor: Jeffrey G. Mueller Signature:	Date:
egal Name of inventor: Joseph Lawrence Loof Signature:	Date:

Application No.: 15/134,370

Docket Number: UNDRF.007A Filing Date: April 20, 2016 Page 1 of 2

ASSIGNMENT

WHEREAS, Thomas G. Pratt, residing at Niles, MI; Robert Daniel Kossler, residing at South Bend, IN; Jeffrey G. Mueller, residing at South Bend, IN; and Joseph Lawrence Loof, residing at Notre Dame, IN, (individual(s) hereinafter "ASSIGNOR"), invented certain new and useful improvements, technology, inventions, developments, ideas, ornamental design or discoveries related to the USE OF COHERENT SIGNAL DISPERSION FOR SIGNAL SOURCE ASSOCIATION (collectively hereinafter referred to as the "Work") for which an application for Letters Patent in the United States has been prepared for filing (identified above) with the United States Patent and Trademark Office (hereinafter the "Application");

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Legal Name of inventor: Thomas G. Pratt

Application No.: 15/134,370 Filing Date: April 20, 2016	Docket Number: UNDRF.007A Page 2 of 2
Signature:	Date:
Legal Name of inventor: Robert Daniel Kossler	
Signature: Robert Sand Kard	Date: 2019 -10 - 02
Legal Name of inventor: Jeffrey G. Mueller	· · · · · · · · · · · · · · · · · · ·
Signature:	Date:
Legal Name of inventor: Joseph Lawrence Loof	
Signature:	Date:

Application No.: 15/134,370 Docket Number: UNDRF.007A Filing Date: April 20, 2016 Page 1 of 2

Timing Date. April 20, 2010

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Application No.: 15/134,370 Filing Date: April 20, 2016	Docket Number: UNDRF.007A Page 2 of 2
Legal Name of inventor: Thomas G. Pratt	
Signature:	Date:
Legal Name of inventor: Robert Daniel Kossler	
Signature:	Date:
Legal Name of inventor: Jeffrey G. Mueller	
Signature:	Date: <u>03-Oct-2019</u>
Legal Name of inventor: Joseph Lawrence Loof	
Signature:	Date:

Application No.: 15/134,370 Docket Number: UNDRF.007A Filing Date: April 20, 2016 Page 1 of 2

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Filing Date: April 20, 2016 Page 2 of 2 Legal Name of inventor: Thomas G. Pratt Signature: _____ Date: _____ Legal Name of inventor: Robert Daniel Kossler Date: _____ Signature: Legal Name of inventor: Jeffrey G. Mueller Signature: _____ Date: _____ Legal Name of inventor: Joseph Lawrence Loof, Signature: Date: 10/2/2019

Application No.: 15/134,370

RECORDED: 10/08/2019

Docket Number: UNDRF.007A