

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5910407

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
KHALED SHAWKY HASSAN HUSSEIN	12/23/2019
RUDRAKSH SHRIVASTAVA	12/12/2019
THOMAS HEYN	11/29/2019
BERNHARD NIEMANN	11/29/2019
RECEIVING PARTY DATA	
Name:	FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.
Street Address:	HANSASTRASSE 27C
City:	MÜNCHEN
State/Country:	GERMANY
Postal Code:	80686
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16683793
CORRESPONDENCE DATA	
Fax Number:	(703)563-9748
<i>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.</i>	
Phone:	7037383438
Email:	docket@nklaw.com
Correspondent Name:	NOVICK, KIM & LEE, PLLC
Address Line 1:	3251 OLD LEE HIGHWAY
Address Line 2:	SUITE 404
Address Line 4:	FAIRFAX, VIRGINIA 22030
ATTORNEY DOCKET NUMBER:	PJK5283592
NAME OF SUBMITTER:	DAHYE EVANS
SIGNATURE:	/Dahye Evans/
DATE SIGNED:	01/14/2020
Total Attachments: 4	
source=PJK5283592-Assignment#page1.tif	

source=PJK5283592-Assignment#page2.tif

source=PJK5283592-Assignment#page3.tif

source=PJK5283592-Assignment#page4.tif

ASSIGNMENT

WHEREAS I/We, the below named inventor(s) (hereinafter referred to as Assignor(s)), have made an invention entitled:

FULL DUPLEXING DOWNLINK AND UPLINK DIRECTIONS

for which I/WE executed an application for United States Letters Patent that was filed or will be filed in the United States Patent and Trademark Office; and

WHEREAS, **Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.**, a corporation of Germany, whose post office address is Hansastraße 27c 80686 München, Germany (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee(s) is hereby acknowledged, I/We, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee(s), its/their lawful successors and assigns, my/our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/We hereby authorize and request the Director of United States Patent and Trademark Office to issue all Letters Patent for this invention to Assignee(s), its/their successors and assigns, in accordance with the terms of this Assignment;

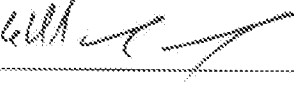
AND, I/WE HEREBY covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee(s), its/their successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said Assignee(s), its/their successors and assigns, execute all divisional, continuation, and reissue

applications, make all rightful oaths and generally do everything possible to aid Assignee(s), its/their successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee(s), its/their successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/we have empowered in the Power of Attorney in this application, to insert here in parentheses (Application No. 16/683,793, filed on November 14, 2019) the filing date and application number of said application when known.

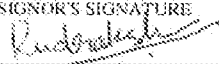
IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

1. FULL NAME OF SOLE OR FIRST ASSIGNOR HASSAN HUSSEIN, Khaled Shawky	ASSIGNOR'S SIGNATURE 	DATE 23.12.2019
ADDRESS Rotkappenweg 2, 91058 Erlangen, Germany		CITIZENSHIP Egypt
2. FULL NAME OF SECOND ASSIGNOR SHRIVASTAVA, Rudraksh	ASSIGNOR'S SIGNATURE	DATE
ADDRESS Nürnberg Str. 125, 90762 Fürth, Germany		CITIZENSHIP India
3. FULL NAME OF THIRD ASSIGNOR HEYN, Thomas	ASSIGNOR'S SIGNATURE	DATE
ADDRESS Kopernikusstraße 53, 90766 Fürth, Germany		CITIZENSHIP Germany
4. FULL NAME OF FOURTH ASSIGNOR NIEMANN, Bernhard	ASSIGNOR'S SIGNATURE	DATE
ADDRESS Finkenweg 16, 91056 Erlangen, Germany		CITIZENSHIP Germany

applications, make all rightful oaths and generally do everything possible to aid Assignee(s), its/their successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee(s), its/their successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/we have empowered in the Power of Attorney in this application, to insert here in parentheses (Application No. 16/683,793, filed on November 14, 2019) the filing date and application number of said application when known.

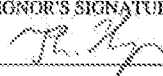
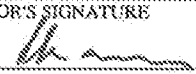
IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

1. FULL NAME OF SOLE OR FIRST ASSIGNOR HASSAN HUSSEIN, Khaled Shawky	ASSIGNOR'S SIGNATURE	DATE
ADDRESS Rotkappenweg 2, 91058 Erlangen, Germany		CITIZENSHIP Egypt
2. FULL NAME OF SECOND ASSIGNOR SHRIVASTAVA, Rudraksh	ASSIGNOR'S SIGNATURE 	DATE 12/12/2019
ADDRESS Nürnberg Str. 125, 90762 Fürth, Germany		CITIZENSHIP India
3. FULL NAME OF THIRD ASSIGNOR HEYN, Thomas	ASSIGNOR'S SIGNATURE	DATE
ADDRESS Kepernikusstraße 53, 90766 Fürth, Germany		CITIZENSHIP Germany
4. FULL NAME OF FOURTH ASSIGNOR NIEMANN, Bernhard	ASSIGNOR'S SIGNATURE	DATE
ADDRESS Finkenweg 16, 91056 Erlangen, Germany		CITIZENSHIP Germany

applications, make all rightful oaths and generally do everything possible to aid Assignee(s), its/their successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee(s), its/their successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/we have empowered in the Power of Attorney in this application, to insert here in parentheses (Application No. 16/683,793, filed on November 14, 2019) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

1. FULL NAME OF SOLE OR FIRST ASSIGNOR HASSAN HUSSEIN, Khaled Shawky	ASSIGNOR'S SIGNATURE	DATE
ADDRESS Rotkappenweg 2, 91058 Erlangen, Germany		CITIZENSHIP Egypt
2. FULL NAME OF SECOND ASSIGNOR SHRIVASTAVA, Rudraksh	ASSIGNOR'S SIGNATURE	DATE
ADDRESS Nürnberg Str. 125, 90762 Fürth, Germany		CITIZENSHIP India
3. FULL NAME OF THIRD ASSIGNOR HEYN, Thomas	ASSIGNOR'S SIGNATURE 	DATE 29.11.19
ADDRESS Kopernikusstraße 53, 90766 Fürth, Germany		CITIZENSHIP Germany
4. FULL NAME OF FOURTH ASSIGNOR NIEMANN, Bernhard	ASSIGNOR'S SIGNATURE 	DATE 29.11.19
ADDRESS Finkenweg 16, 91056 Erlangen, Germany		CITIZENSHIP Germany