

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT7266291

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SHIRISH NAGARAJ	03/31/2020
DEEPAK PENGORIA	01/31/2020
JIADONG WANG	01/31/2020
HSIEN LI WOO	01/31/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CORNING RESEARCH & DEVELOPMENT CORPORATION
<b>Street Address:</b>	ONE RIVERFRONT PLAZA
<b>City:</b>	CORNING
<b>State/Country:</b>	NEW YORK
<b>Postal Code:</b>	14831
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	17714782
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(828)901-5533
<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>	
<b>Phone:</b>	828-901-5156
<b>Email:</b>	mcclainka@corning.com
<b>Correspondent Name:</b>	CORNING RESEARCH & DEVELOPMENT CORPORATION
<b>Address Line 1:</b>	INTELLECTUAL PROPERTY DEPARTMENT
<b>Address Line 2:</b>	SP-TI-03-01
<b>Address Line 4:</b>	CORNING, NEW YORK 14831
<b>ATTORNEY DOCKET NUMBER:</b>	HI20-008A
<b>NAME OF SUBMITTER:</b>	KATHLEEN A. MCCLAIN
<b>SIGNATURE:</b>	/Kathleen A. McClain/
<b>DATE SIGNED:</b>	04/06/2022
<b>Total Attachments: 5</b>	
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## ASSIGNMENT

FOR VALUE RECEIVED, I, as a below named inventor, hereby sell, assign and transfer unto CORNING RESEARCH & DEVELOPMENT CORPORATION, a corporation organized and existing under the laws of the State of Delaware, having its principal place of business at Corning, New York, (hereinafter CORNING), as assignee, and unto its successors, assigns and legal representatives, the entire right, title and interest, for all countries, in and to certain inventions relating to a **GRID OF BEAMS (GOB) ADAPTATION IN A WIRELESS COMMUNICATIONS CIRCUIT, PARTICULARLY FOR A WIRELESS COMMUNICATIONS SYSTEM (WCS)**, such inventions being generally described in an application for Letters Patent of the United States executed on

<i>DATE</i>	<u>03/31/2020</u>
<i>DATE</i>	<u>01/31/2020</u>
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and in any future patent applications claiming the benefit of the filing date of that application, and all the rights and privileges under any and all Letters Patents that may be granted therefore.

I request that any and all patents for said inventions be issued to CORNING, its successors, assigns and legal representatives, or to such nominees as CORNING may designate.

I agree that, when requested, I will, without charge to CORNING and at CORNING's expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in CORNING, its successors, assigns and legal representatives or nominees.

I authorize and empower CORNING, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for said Convention or entered as a supplement to, and to invoke and claim such right of priority without further written or oral authorization.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of CORNING, or its successors, assigns and legal representatives or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it or entered as a supplement to it.

I covenant with CORNING, its successors, assigns and legal representatives or nominees, that the rights and property herein conveyed are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed:

03/31/2020

Date \_\_\_\_\_

Charles W.

Shirish Nagaraj

Date

---

Deepak Pengoria

Date \_\_\_\_\_

---

Jiadong Wang

Date \_\_\_\_\_

Hsien Li Woo

Witnessed:

On the \_\_\_\_ day of \_\_\_\_\_ 2020, before me personally came **Shirish Nagaraj** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Witness

Witnessed:

On the \_\_\_\_ day of \_\_\_\_\_ 2020, before me personally came **Deepak Pengoria** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Witness

Witnessed:

On the \_\_\_\_ day of \_\_\_\_\_ 2020, before me personally came **Jiadong Wang** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Witness

Witnessed:

On the \_\_\_\_ day of \_\_\_\_\_ 2020, before me personally came **Hsien Li Woo** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Witness

I covenant with CORNING, its successors, assigns and legal representatives or nominees, that the rights and property herein conveyed are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed:

\_\_\_\_\_  
Date Shirish Nagaraj

01/31/2020  
Date Deepak

\_\_\_\_\_  
Date Deepak Pengoria

\_\_\_\_\_  
Date Jiadong Wang

\_\_\_\_\_  
Date Hsien Li Woo

Witnessed:

On the \_\_\_\_\_ day of \_\_\_\_\_, 2020, before me personally came **Shirish Nagaraj** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

\_\_\_\_\_  
Witness

Witnessed:

On the 31 day of Jan, 2020, before me personally came **Deepak Pengoria** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

[Signature]  
Witness

Witnessed:

On the \_\_\_\_\_ day of \_\_\_\_\_, 2020, before me personally came **Jiadong Wang** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

\_\_\_\_\_  
Witness

Witnessed:

On the \_\_\_\_\_ day of \_\_\_\_\_, 2020, before me personally came **Hsien Li Woo** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

\_\_\_\_\_  
Witness

I covenant with CORNING, its successors, assigns and legal representatives or nominees, that the rights and property herein conveyed are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed:

\_\_\_\_\_  
Date Shirish Nagaraj

\_\_\_\_\_  
Date Deepak Pengoria

1/31/2020  
\_\_\_\_\_  
Date Jiadong Wang

\_\_\_\_\_  
Date Hsien Li Woo

Witnessed:

On the \_\_\_\_ day of \_\_\_\_\_ 2020, before me personally came Shirish Nagaraj known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

\_\_\_\_\_  
Witness

Witnessed:

On the \_\_\_\_ day of \_\_\_\_\_ 2020, before me personally came Deepak Pengoria known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

\_\_\_\_\_  
Witness

Witnessed:

On the 31<sup>st</sup> day of January 2020, before me personally came Jiadong Wang known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

\_\_\_\_\_  
Witness FARHAN ASLAM  
QAZI

Witnessed:

On the \_\_\_\_ day of \_\_\_\_\_ 2020, before me personally came Hsien Li Woo known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

\_\_\_\_\_  
Witness

I covenant with CORNING, its successors, assigns and legal representatives or nominees, that the rights and property herein conveyed are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed:

\_\_\_\_\_  
Date Shirish Nagaraj

\_\_\_\_\_  
Date Deepak Pengoria

\_\_\_\_\_  
Date Jiadong Wang

1/31/2020  
Date Hsien Li Woo

Witnessed:

On the \_\_\_\_\_ day of \_\_\_\_\_ 2020, before me personally came **Shirish Nagaraj** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

\_\_\_\_\_  
Witness

Witnessed:

On the \_\_\_\_\_ day of \_\_\_\_\_ 2020, before me personally came **Deepak Pengoria** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

\_\_\_\_\_  
Witness

Witnessed:

On the \_\_\_\_\_ day of \_\_\_\_\_ 2020, before me personally came **Jiadong Wang** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

\_\_\_\_\_  
Witness

Witnessed:

On the 31<sup>st</sup> day of January 2020, before me personally came **Hsien Li Woo** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

\_\_\_\_\_  
Witness

**FARHAN ASLAM**  
**QAZI**