PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5963806

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
VLADIMIR H. VOYNOV	12/19/2019	
PHILIP NICHOLAS GORMAN	12/04/2019	
PANKAJ GUPTA	12/05/2019	
RAJKUMAR GANESAN	12/17/2019	
MICHAEL DZIEGELEWSKI	12/05/2019	
PRIYANKA GUPTA	12/04/2019	

RECEIVING PARTY DATA

BOEHRINGER INGELHEIM PHARMACEUTICALS, INC.
900 RIDGEBURY ROAD
PO BOX 368
RIDGEFIELD
CONNECTICUT
06877
BOEHRINGER INGELHEIM USA CORP.
900 RIDGEBURY ROAD
900 RIDGEBURY ROAD PO BOX 368
PO BOX 368

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16434188

CORRESPONDENCE DATA

Fax Number:

505917089

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.

Email:christine.sturges@boehringer-ingelheim.comCorrespondent Name:BOEHRINGER INGELHEIM USA CORP.

Address Line 1: 900 RIDGEBURY ROAD

Address Line 2: PO BOX 368

REEL: 051819 FRAME: 0055

PATENT

Address Line 4: RIDO	4: RIDGEFIELD, CONNECTICUT 06877	
ATTORNEY DOCKET NUMBER:	12-0431-US-1	
NAME OF SUBMITTER:	WENDY M. GOMBERT	
SIGNATURE:	/Wendy M. Gombert/	
DATE SIGNED:	02/14/2020	

Total Attachments: 13

source=employeesUSAandpharma#page1.tif source=employeesUSAandpharma#page2.tif source=employeesUSAandpharma#page3.tif source=employeesUSAandpharma#page4.tif source=employeesUSAandpharma#page5.tif source=employeesUSAandpharma#page6.tif source=employeesUSAandpharma#page7.tif source=employeesUSAandpharma#page8.tif source=employeesUSAandpharma#page9.tif source=employeesUSAandpharma#page10.tif source=employeesUSAandpharma#page11.tif source=employeesUSAandpharma#page12.tif source=employeesUSAandpharma#page13.tif

PATENT REEL: 051819 FRAME: 0056

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and further pursuant to the agreement signed at the start of my employment with **Boehringer Ingelheim Pharmaceuticals, Inc. & Boehringer Ingelheim USA** the undersigned inventor has previously transferred, sold, and assigned, and to the extent the inventor has not previously transferred, sold, and assigned hereby transfers, sells, and assigns, unto:

Boehringer Ingelheim Pharmaceuticals, Inc., 900 Ridgebury Road, P.O. Box 368, Ridgefield, CT 06877 and Boehringer Ingelheim USA Corporation, 900 Ridgebury Road, P.O. Box 368, Ridgefield, CT 06877

its successors and assigns, (hereinafter "Assignee") his/her entire right, title, and interest, for the United States and the Territories and Possessions thereof and all foreign countries and regions, in and to the inventions and designs (if any) (hereinafter collectively referred to as the "inventions") as set forth and described in the following United States patent application(s): Application No. 16434188 filed 6/7/2019 (hereinafter referred to as the "Application"), including all rights to provisionals, nonprovisionals, divisionals, continuations, continuations-in-part, Patent Cooperation Treaty (PCT) applications, and national stages of any such PCT applications, and all other foreign patent applications based in whole or in part upon the inventions or upon the Application, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted in any country for the Inventions or upon the Application or any patent application claiming priority rights from the Application, and every priority right that is or may be predicated upon or arise from the inventions, or from the Application, and including all rights to sue for any infringement of the Letters Patent, and further including all rights to past damages relating to third party infringement of the Letters Patent, the Assignee being hereby authorized to file and prosecute patent applications, including completing formalities and recordation of ownership claims, in any or all countries and regions on any or all of the inventions in the name of the undersigned or in the name of the Assignee or otherwise as the Assignee may deem advisable, under the PCT or otherwise; the United States Patent and Trademark Office and corresponding patent granting authorities outside the United States being hereby authorized to issue or transfer all the Letters Patent issuing from any patent applications claiming the inventions or claiming priority from the Application to the Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or

81 Employee US & JP WWAssignment U.S. Serial No.16434188

Date of Filing: 6/7/2019

Attorney Docket No. 12-0431-US-1

other right heretofore given, and that the undersigned will do all acts reasonably serving to ensure that

the Inventions, the Application, and any Letters Patent which may issue from any patent applications

claiming the Inventions or claiming priority from the Application shall be held and enjoyed by the Assignee

as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment

had not been made, and particularly to execute and deliver to the Assignee all lawful documents including

petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in

form and substance which may be requested by the Assignee, to furnish the Assignee with all facts relating

to the inventions and/or the Application or the history thereof and any and all documents, photographs,

models, samples or other physical exhibits which may embody the Inventions or relate to the Application,

and generally do everything possible to aid the Assignee, its successors, legal representatives, and assigns,

to obtain and enforce proper patent protection, in all countries and regions, for the inventions, the

Application, and/or Letters Patent that may issue as a result of the Application and from any patent

applications claiming priority to the Application, and not to take any action challenging or opposing, on

any grounds whatsoever, Assignee's rights granted under this Agreement, or the validity of the transfer

of the ownership rights hereunder. For the avoidance of doubt, nothing in this assignment requires the

Assignor to provide testimony in a United States litigation related to the above mentioned inventions,

Application, and/or Letters Patent.

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in

this Assignment any further identification that may be necessary or desirable to comply with the rules of

the U.S. Patent and Trademark Office and/or corresponding patent granting authorities outside the United

States, and to handle all correspondence relating to the Application or any patent applications claiming

priority from the Application.

NAME AND SIGNATURE OF INVENTOR

Name: Vladimir H. Vovnov

Makin H. Mer

Date: 12/19/2019

NAME AND SIGNATURE OF THE AUTHORIZED OFFICERS OF ASSIGNEE

Sheila Denton, Sr. Vice President, General Counsel and Secretary

Name:

Signature

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and further pursuant to the agreement signed at the start of my employment with Boehringer Ingelheim Pharmaceuticals, Inc. & Boehringer Ingelheim USA the undersigned inventor has previously transferred, sold, and assigned, and to the extent the inventor has not previously transferred, sold, and assigned hereby transfers, sells, and assigns, unto:

Boehringer Ingelheim Pharmaceuticals, Inc., 900 Ridgebury Road, P.O. Box 368, Ridgefield, CT 06877 and Boehringer Ingelheim USA Corporation, 900 Ridgebury Road, P.O. Box 368, Ridgefield, CT 06877

its successors and assigns, (hereinafter "Assignee") his/her entire right, title, and interest, for the United States and the Territories and Possessions thereof and all foreign countries and regions, in and to the inventions and designs (if any) (hereinafter collectively referred to as the "inventions") as set forth and described in the following United States patent application(s): Application No. 16434188 filed 6/7/2019 (hereinafter referred to as the "Application"), including all rights to provisionals, nonprovisionals, divisionals, continuations, continuations in part, Patent Cooperation Treaty (PCT) applications, and national stages of any such PCT applications, and all other foreign patent applications based in whole or in part upon the Inventions or upon the Application, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted in any country for the Inventions or upon the Application or any patent application claiming priority rights from the Application, and every priority right that is or may be predicated upon or arise from the Inventions, or from the Application, and including all rights to sue for any infringement of the Letters Patent, and further including all rights to past damages relating to third party infringement of the Letters Patent, the Assignee being hereby authorized to file and prosecute patent applications, including completing formalities and recordation of ownership claims, in any or all countries and regions on any or all of the Inventions in the name of the undersigned or in the name of the Assignee or otherwise as the Assignee may deem advisable, under the PCT or otherwise; the United States Patent and Trademark Office and corresponding patent granting authorities outside the United States being hereby authorized to issue or transfer all the Letters Patent issuing from any patent applications claiming the Inventions or claiming priority from the Application to the Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or

other right heretofore given, and that the undersigned will do all acts reasonably serving to ensure that the Inventions, the Application, and any Letters Patent which may issue from any patent applications claiming the inventions or claiming priority from the Application shall be held and enjoyed by the Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to the Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by the Assignee, to furnish the Assignee with all facts relating to the Inventions and/or the Application or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody the inventions or relate to the Application, and generally do everything possible to aid the Assignee, its successors, legal representatives, and assigns, to obtain and enforce proper patent protection, in all countries and regions, for the inventions, the Application, and/or Letters Patent that may issue as a result of the Application and from any patent applications claiming priority to the Application, and not to take any action challenging or opposing, on any grounds whatsoever, Assignee's rights granted under this Agreement, or the validity of the transfer of the ownership rights hereunder. For the avoidance of doubt, nothing in this assignment requires the Assignor to provide testimony in a United States litigation related to the above mentioned Inventions. Application, and/or Letters Patent.

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office and/or corresponding patent granting authorities outside the United States, and to handle all correspondence relating to the Application or any patent applications claiming priority from the Application.

NAME AND SIGNATURE OF INVENTOR

Name: Philip Nicholas Gorman

7/4-1-3-5/7

NAME AND SIGNATURE OF THE AUTHORIZED OFFICERS OF ASSIGNEE

Name: Sheila Denton, Sr. Vice President, General Counsel and Secretary

Signature: 201 17 2010

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and further pursuant to the agreement signed at the start of my employment with **Boehringer Ingelheim Pharmaceuticals, Inc. & Boehringer Ingelheim USA** the undersigned inventor has previously transferred, sold, and assigned, and to the extent the inventor has not previously transferred, sold, and assigned hereby transfers, sells, and assigns, unto:

Boehringer Ingelheim Pharmaceuticals, Inc., 900 Ridgebury Road, P.O. Box 368, Ridgefield, CT 06877 and Boehringer Ingelheim USA Corporation, 900 Ridgebury Road, P.O. Box 368, Ridgefield, CT 06877

its successors and assigns, (hereinafter "Assignee") his/her entire right, title, and interest, for the United States and the Territories and Possessions thereof and all foreign countries and regions, in and to the inventions and designs (if any) (hereinafter collectively referred to as the "Inventions") as set forth and described in the following United States patent application(s): Application No. 16434188 filed 6/7/2019 (hereinafter referred to as the "Application"), including all rights to provisionals, nonprovisionals, divisionals, continuations, continuations-in-part, Patent Cooperation Treaty (PCT) applications, and national stages of any such PCT applications, and all other foreign patent applications based in whole or in part upon the Inventions or upon the Application, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted in any country for the Inventions or upon the Application or any patent application claiming priority rights from the Application, and every priority right that is or may be predicated upon or arise from the Inventions, or from the Application, and including all rights to sue for any infringement of the Letters Patent, and further including all rights to past damages relating to third party infringement of the Letters Patent, the Assignee being hereby authorized to file and prosecute patent applications, including completing formalities and recordation of ownership claims, in any or all countries and regions on any or all of the inventions in the name of the undersigned or in the name of the Assignee or otherwise as the Assignee may deem advisable, under the PCT or otherwise; the United States Patent and Trademark Office and corresponding patent granting authorities outside the United States being hereby authorized to issue or transfer all the Letters Patent issuing from any patent applications claiming the inventions or claiming priority from the Application to the Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or

Page 1 of 2

REEL: 051819 FRAME: 0061

other right heretofore given, and that the undersigned will do all acts reasonably serving to ensure that the Inventions, the Application, and any Letters Patent which may issue from any patent applications claiming the inventions or claiming priority from the Application shall be held and enjoyed by the Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to the Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by the Assignee, to furnish the Assignee with all facts relating to the Inventions and/or the Application or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody the Inventions or relate to the Application, and generally do everything possible to aid the Assignee, its successors, legal representatives, and assigns, to obtain and enforce proper patent protection, in all countries and regions, for the Inventions, the Application, and/or Letters Patent that may issue as a result of the Application and from any patent applications claiming priority to the Application, and not to take any action challenging or opposing, on any grounds whatsoever, Assignee's rights granted under this Agreement, or the validity of the transfer of the ownership rights hereunder. For the avoidance of doubt, nothing in this assignment requires the Assignor to provide testimony in a United States litigation related to the above mentioned inventions, Application, and/or Letters Patent.

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office and/or corresponding patent granting authorities outside the United States, and to handle all correspondence relating to the Application or any patent applications claiming priority from the Application.

NAME AND SIGNATURE OF INVENTOR

Name: Pankai Gupta

NAME AND SIGNATURE OF THE AUTHORIZED OFFICERS OF ASSIGNEE

Sheila Denton, Sr. Vice President, General Counsel and Secretary

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and further pursuant to the agreement signed at the start of my employment with Boehringer Ingelheim Pharmaceuticals, Inc. & Boehringer Ingelheim USA the undersigned inventor has previously transferred, sold, and assigned, and to the extent the inventor has not previously transferred, sold, and assigned hereby transfers, sells, and assigns, unto:

Boehringer Ingelheim Pharmaceuticals, Inc., 900 Ridgebury Road, P.O. Box 368, Ridgefield, CT 06877 and Boehringer Ingelheim USA Corporation, 900 Ridgebury Road, P.O. Box 368, Ridgefield, CT 06877

its successors and assigns, (hereinafter "Assignee") his/her entire right, title, and interest, for the United States and the Territories and Possessions thereof and all foreign countries and regions, in and to the inventions and designs (if any) (hereinafter collectively referred to as the "inventions") as set forth and described in the following United States patent application(s): Application No. 16434188 filed 6/7/2019 (hereinafter referred to as the "Application"), including all rights to provisionals, nonprovisionals, divisionals, continuations, continuations-in-part, Patent Cooperation Treaty (PCT) applications, and national stages of any such PCT applications, and all other foreign patent applications based in whole or in part upon the Inventions or upon the Application, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted in any country for the Inventions or upon the Application or any patent application claiming priority rights from the Application, and every priority right that is or may be predicated upon or arise from the Inventions, or from the Application, and including all rights to sue for any infringement of the Letters Patent, and further including all rights to past damages relating to third party infringement of the Letters Patent, the Assignee being hereby authorized to file and prosecute patent applications, including completing formalities and recordation of ownership claims, in any or all countries and regions on any or all of the inventions in the name of the undersigned or in the name of the Assignee or otherwise as the Assignee may deem advisable, under the PCT or otherwise; the United States Patent and Trademark Office and corresponding patent granting authorities outside the United States being hereby authorized to issue or transfer all the Letters Patent issuing from any patent applications claiming the Inventions or claiming priority from the Application to the Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or

8I Employee US & JP WWAssignment U.S. Serial No.16434188 Date of Filing: 6/7/2019

Attorney Docket No. 12-0431-US-1

other right heretofore given, and that the undersigned will do all acts reasonably serving to ensure that the Inventions, the Application, and any Letters Patent which may issue from any patent applications claiming the Inventions or claiming priority from the Application shall be held and enjoyed by the Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to the Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by the Assignee, to furnish the Assignee with all facts relating to the inventions and/or the Application or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody the inventions or relate to the Application, and generally do everything possible to aid the Assignee, its successors, legal representatives, and assigns, to obtain and enforce proper patent protection, in all countries and regions, for the inventions, the Application, and/or Letters Patent that may issue as a result of the Application and from any patent applications claiming priority to the Application, and not to take any action challenging or opposing, on any grounds whatsoever, Assignee's rights granted under this Agreement, or the validity of the transfer of the ownership rights hereunder. For the avoidance of doubt, nothing in this assignment requires the Assignor to provide testimony in a United States litigation related to the above mentioned inventions, Application, and/or Letters Patent.

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office and/or corresponding patent granting authorities outside the United States, and to handle all correspondence relating to the Application or any patent applications claiming priority from the Application.

NAME AND SIGNATURE OF INVENTOR

Name:	Rajkumar	' Ganesar
-------	----------	-----------

Signature: G-Palle

Date: 17-DEC-2019

NAME AND SIGNATURE OF THE AUTHORIZED OFFICERS OF ASSIGNEE

Sheila Denton, Sr. Vice President, General Counsel and Secretary

Name:

Signature:

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and further pursuant to the agreement signed at the start of my employment with **Boehringer Ingelheim Pharmaceuticals, Inc. & Boehringer Ingelheim USA** the undersigned inventor has previously transferred, sold, and assigned, and to the extent the inventor has not previously transferred, sold, and assigned hereby transfers, sells, and assigns, unto:

Boehringer Ingelheim Pharmaceuticals, Inc., 900 Ridgebury Road, P.O. Box 368, Ridgefield, CT 06877 and Boehringer Ingelheim USA Corporation, 900 Ridgebury Road, P.O. Box 368, Ridgefield, CT 06877

its successors and assigns, (hereinafter "Assignee") his/her entire right, title, and interest, for the United States and the Territories and Possessions thereof and all foreign countries and regions, in and to the inventions and designs (if any) (hereinafter collectively referred to as the "Inventions") as set forth and described in the following United States patent application(s): Application No. 16434188 filed 6/7/2019 (hereinafter referred to as the "Application"), including all rights to provisionals, nonprovisionals, divisionals, continuations, continuations-in-part, Patent Cooperation Treaty (PCT) applications, and national stages of any such PCT applications, and all other foreign patent applications based in whole or in part upon the Inventions or upon the Application, and any and all Letters Patent and reissues. reexaminations, and extensions of Letters Patent granted in any country for the inventions or upon the Application or any patent application claiming priority rights from the Application, and every priority right that is or may be predicated upon or arise from the inventions, or from the Application, and including all rights to sue for any infringement of the Letters Patent, and further including all rights to past damages relating to third party infringement of the Letters Patent, the Assignee being hereby authorized to file and prosecute patent applications, including completing formalities and recordation of ownership claims, in any or all countries and regions on any or all of the Inventions in the name of the undersigned or in the name of the Assignee or otherwise as the Assignee may deem advisable, under the PCT or otherwise; the United States Patent and Trademark Office and corresponding patent granting authorities outside the United States being hereby authorized to issue or transfer all the Letters Patent issuing from any patent applications claiming the Inventions or claiming priority from the Application to the Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or

other right heretofore given, and that the undersigned will do all acts reasonably serving to ensure that the inventions, the Application, and any Letters Patent which may issue from any patent applications claiming the Inventions or claiming priority from the Application shall be held and enjoyed by the Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to the Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by the Assignee, to furnish the Assignee with all facts relating to the Inventions and/or the Application or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody the Inventions or relate to the Application, and generally do everything possible to aid the Assignee, its successors, legal representatives, and assigns, to obtain and enforce proper patent protection, in all countries and regions, for the Inventions, the Application, and/or Letters Patent that may issue as a result of the Application and from any patent applications claiming priority to the Application, and not to take any action challenging or opposing, on any grounds whatsoever, Assignee's rights granted under this Agreement, or the validity of the transfer of the ownership rights hereunder. For the avoidance of doubt, nothing in this assignment requires the Assignor to provide testimony in a United States litigation related to the above mentioned inventions, Application, and/or Letters Patent.

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office and/or corresponding patent granting authorities outside the United States, and to handle all correspondence relating to the Application or any patent applications claiming priority from the Application.

NAME AND SIGNATURE OF INVENTOR

ski
t

NAME AND SIGNATURE OF THE AUTHORIZED OFFICERS OF ASSIGNEE

Sheila Denton, Sr. Vice President, General Counsel and Secretary Name:

BI Employee US & JP WWAssignment U.S. Serial No.16434188 Date of Filing: 6/7/2019

Attorney Docket No. 12-0431-U5-1

Signature: XUL

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and further pursuant to the agreement signed at the start of my employment with Boehringer Ingelheim Pharmaceuticals, Inc. & Boehringer Ingelheim USA the undersigned inventor has previously transferred, sold, and assigned, and to the extent the inventor has not previously transferred, sold, and assigned hereby transfers, sells, and assigns, unto:

Boehringer Ingelheim Pharmaceuticals, Inc., 900 Ridgebury Road, P.O. Box 368, Ridgefield, CT 06877

and Boehringer Ingelheim USA Corporation, 900 Ridgebury Road, P.O. Box 368, Ridgefield, CT 06877

its successors and assigns, (hereinafter "Assignee") his/her entire right, title, and interest, for the United States and the Territories and Possessions thereof and all foreign countries and regions, in and to the inventions and designs (if any) (hereinafter collectively referred to as the "Inventions") as set forth and described in the following United States patent application(s): Application No. 16434188 filed 6/7/2019 (hereinafter referred to as the "Application"), including all rights to provisionals, nonprovisionals, divisionals, continuations, continuations-in-part, Patent Cooperation Treaty (PCT) applications, and national stages of any such PCT applications, and all other foreign patent applications based in whole or in part upon the inveritions or upon the Application, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted in any country for the inventions or upon the Application or any patent application claiming priority rights from the Application, and every priority right that is or may be predicated upon or arise from the inventions, or from the Application, and including all rights to sue for any infringement of the Letters Patent, and further including all rights to past damages relating to third party infringement of the Letters Patent, the Assignee being hereby authorized to file and prosecute patent applications, including completing formalities and recordation of ownership claims, in any or all countries and regions on any or all of the inventions in the name of the undersigned or in the name of the Assignee or otherwise as the Assignee may deem advisable, under the PCT or otherwise; the United States Patent and Trademark Office and corresponding patent granting authorities outside the United States being hereby authorized to issue or transfer all the Letters Patent issuing from any patent applications claiming the inventions or claiming priority from the Application to the Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or

BI Employee US & JP WWAssignment U.S. Serial No.16434188 Date of Filing: 6/7/2019

Attorney Docket No. 12-0431-US-1

other right heretofore given, and that the undersigned will do all acts reasonably serving to ensure that the Inventions, the Application, and any Letters Patent which may issue from any patent applications claiming the Inventions or claiming priority from the Application shall be held and enjoyed by the Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to the Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by the Assignee, to furnish the Assignee with all facts relating to the inventions and/or the Application or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody the Inventions or relate to the Application, and generally do everything possible to aid the Assignee, its successors, legal representatives, and assigns, to obtain and enforce proper patent protection, in all countries and regions, for the Inventions, the Application, and/or Letters Patent that may issue as a result of the Application and from any patent applications claiming priority to the Application, and not to take any action challenging or opposing, on any grounds whatsoever, Assignee's rights granted under this Agreement, or the validity of the transfer of the ownership rights hereunder. For the avoidance of doubt, nothing in this assignment requires the Assignor to provide testimony in a United States litigation related to the above mentioned inventions, Application, and/or Letters Patent.

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office and/or corresponding patent granting authorities outside the United States, and to handle all correspondence relating to the Application or any patent applications claiming priority from the Application.

NAME AND SIGNATURE OF INVENTOR

Name:	Priyanka Gupta		
Signatu	ire: Princial Guess	Date: 12 4 24	719
V. V.	·····		

NAME AND SIGNATURE OF THE AUTHORIZED OFFICERS OF ASSIGNEE

Name: Sheila Denton Sr. Vice President, General Counsel and Secretary

Signature: Date: 01 17 2020

Page 2 of 2

RECORDED: 02/14/2020