506277709 09/29/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6324456

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LIEVEN VERSLEGERS	09/24/2020
HONG LIU	09/25/2020
KEVIN YASUMURA	09/27/2020
JILL BERGER	09/28/2020
RYOHEI URATA	09/24/2020

RECEIVING PARTY DATA

Name:	GOOGLE LLC
Street Address:	1600 AMPHITHEATRE PARKWAY
City:	MOUNTAIN VIEW
State/Country:	CALIFORNIA
Postal Code:	94043

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17034867

CORRESPONDENCE DATA

Fax Number: (908)654-7866

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: (908) 654-5000

Email: assignment@lernerdavid.com

Correspondent Name: LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP

Address Line 1: 20 COMMERCE DR.

Address Line 4: CRANFORD, NEW JERSEY 07016

ATTORNEY DOCKET NUMBER:	GOOGLE 3.0F-3181
NAME OF SUBMITTER:	MELINDA C. CORMIER
SIGNATURE:	/Melinda C. Cormier/
DATE SIGNED:	09/29/2020

Total Attachments: 5

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PATENT REEL: 053917 FRAME: 0778

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PATENT REEL: 053917 FRAME: 0779

ACCIONATE OF A PREMIT PART MICHIELD	GOOGLE 3.0F-3181
WHEREAS, I, <u>Lieven Verslegers</u> of <u>San Mateo</u> , <u>California</u> , have the subject matter of which is described in the patent application entitled "PHOTONIC INTEGRATED CIRCUIT AND SUBSTRATE" (hereafter "Pate	LASER LIGHT SOURCE CO-PACKAGED WITH
WHEREAS (if the left box is checked), the Patent Application was Trademark Office on, Application Number	
X WHEREAS (if the left box is checked), the Patent Application na Lieven Verslegers, Hong Liu, Kevin Yasumura, Jill Berger, and Ryohei Uratic Littenberg, Krumholz & Mentlik, LLP, to insert in here in brackets [Application] the application number and filing date of the application.	a (and whereas I hereby authorize Lerner, David,
WHEREAS, <u>Google LLC</u> , incorporated or otherwise formed in <u>Deamphitheatre Parkway</u> ; <u>Mountain View</u> , <u>CA 94043</u> (hereafter, the "assigne is desirous of memorializing its acquisition further herein, the entire right, the control of	ee") is desirous of acquiring, or has acquired and
NOW, THEREFORE, for good and valuable consideration the reas follows. I agree to assign, and hereby do assign, to the assignee my e Assigned Applications in the United States of America and all other countres Patent Application, including any and all inventions, discoveries and other continuation, continuation-in-part, substitute, reissue, re-examination or ot Patent Application pursuant to any law or treaty, and any patent issuing from the assign, to assignee the right to claim such priority or benefit. I have no obligation to convey, my rights in the Assigned Applications to a third party Trademark Office, and any other governmental agency in the world, to iss Assigned Applications and to record assignee's ownership thereof. At assignther remuneration, to execute and deliver documents prepared at assig such as testimony, as may be reasonably required to evidence or protect: Assignee may assign or transfer all or part of its rights set forth herein in it affix its signature to this document as well as any other indicia of its accepherein is unenforceable, the requirements of the provision shall remain to offending portions thereof shall be deemed replaced, to the extent possible purpose of the offending provision.	ntire right, title and interest in and to the ries, where "Assigned Applications" means the subject matter described therein, any divisional, ther application claiming priority or benefit to the om the foregoing. I agree to assign, and hereby at previously conveyed, nor am I aware of an y. I hereby authorize the U.S. Patent and ue to assignee all patents resulting from the signee's reasonable request I agree, without inee's expense and to provide other cooperation, assignee's rights in the Assigned Applications. Is sole discretion. I agree that the assignee may stance of the provisions hereof. If any provision the full extent permissible by law and the
	igned by:
(Date)	^{125C5AE34A1} (Signature)

ACCOMMENT OF A PARTIES AND A STATE OF A STAT	.0.1	GOOGLE 3.0F-3181
WHEREAS, I, <u>Hong Liu</u> of <u>Palo Alto, California</u> , have invented or discovered inventions or discoveries, the subject matter of which is described in the patent application entitled "LASER LIGHT SOURCE CO-PACKAGED WITH PHOTONIC INTEGRATED CIRCUIT AND SUBSTRATE" (hereafter "Patent Application"),		
WHEREAS (if the left box is checked), the Patent A. Trademark Office on, Application Number		
WHEREAS (if the left box is checked), the Patent Application names the following inventors: Lieven Verslegers, Hong Liu, Kevin Yasumura, Jill Berger, and Ryohei Urata (and whereas I hereby authorize Lerner, David, Littenberg, Krumholz & Mentlik, LLP, to insert in here in brackets [Application No, filed on] the application number and filing date of the application when known), and		
WHEREAS, <u>Google LLC</u> , incorporated or otherwise <u>Amphitheatre Parkway; Mountain View, CA 94043</u> (hereafter, is desirous of memorializing its acquisition further herein, the	the "assigne	ee") is desirous of acquiring, or has acquired and
NOW, THEREFORE, for good and valuable consider as follows. I agree to assign, and hereby do assign, to the as Assigned Applications in the United States of America and all Patent Application, including any and all inventions, discoveric continuation, continuation-in-part, substitute, reissue, re-exam Patent Application pursuant to any law or treaty, and any pate do assign, to assignee the right to claim such priority or beneficially obtained to convey, my rights in the Assigned Applications to Trademark Office, and any other governmental agency in the Assigned Applications and to record assignee's ownership the further remuneration, to execute and deliver documents prepared as testimony, as may be reasonably required to evidence Assignee may assign or transfer all or part of its rights set for affix its signature to this document as well as any other indicial herein is unenforceable, the requirements of the provision sharefrending portions thereof shall be deemed replaced, to the expurpose of the offending provision.	signee my e other countries and other nination or ot ent issuing frifit. I have no o a third party world, to issered. At assigned at assigned or protect the herein in it a of its accepall remain to	ntire right, title and interest in and to the ries, where "Assigned Applications" means the subject matter described therein, any divisional, ther application claiming priority or benefit to the om the foregoing. I agree to assign, and hereby at previously conveyed, nor am I aware of an y. I hereby authorize the U.S. Patent and ue to assignee all patents resulting from the signee's reasonable request I agree, without inee's expense and to provide other cooperation, assignee's rights in the Assigned Applications. Is sole discretion. I agree that the assignee may stance of the provisions hereof. If any provision the full extent permissible by law and the
9/25/2020	DocuSigne	ed by:
(Date)	214B6AE8	7E084B4 (Signature)

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	ornia, have invented or discovered inventions or discoveries, ation entitled "LASER LIGHT SOURCE CO-PACKAGED WITH ereafter "Patent Application"),
WHEREAS (if the left box is checked), the Patent A	
X WHEREAS (if the left box is checked), the Patent A Lieven Verslegers, Hong Liu, Kevin Yasumura, Jill Berger, and Littenberg, Krumholz & Mentlik, LLP, to insert in here in brack the application number and filing date of	d Ryohei Urata (and whereas I hereby authorize Lerner, David, tets [Application No filed on
	e formed in <u>Delaware</u> and having a place of business at <u>1600</u> r, the "assignee") is desirous of acquiring, or has acquired and e entire right, title and interest in same;
as follows. I agree to assign, and hereby do assign, to the a Assigned Applications in the United States of America and a Patent Application, including any and all inventions, discover continuation, continuation-in-part, substitute, reissue, re-exa Patent Application pursuant to any law or treaty, and any pa do assign, to assignee the right to claim such priority or bene obligation to convey, my rights in the Assigned Applications Trademark Office, and any other governmental agency in the Assigned Applications and to record assignee's ownership the further remuneration, to execute and deliver documents prey such as testimony, as may be reasonably required to eviden Assignee may assign or transfer all or part of its rights set for	all other countries, where "Assigned Applications" means the ries and other subject matter described therein, any divisional, mination or other application claiming priority or benefit to the tent issuing from the foregoing. I agree to assign, and hereby effit. I have not previously conveyed, nor am I aware of an to a third party. I hereby authorize the U.S. Patent and e world, to issue to assignee all patents resulting from the hereof. At assignee's reasonable request I agree, without pared at assignee's reasonable request I agree, without pared at assignee's rights in the Assigned Applications. In the Assigned Applications with herein in its sole discretion. I agree that the assignee may the of its acceptance of the provisions hereof. If any provision half remain to the full extent permissible by law and the
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	BEFC4F7CE846479 (Signature)
(Date)	(Signature)

	GOOGLE 3.0F-3181
WHEREAS, I, <u>Jill Berger</u> of <u>Saratoga, California</u> , he subject matter of which is described in the patent application PHOTONIC INTEGRATED CIRCUIT AND SUBSTRATE" (h.	nave invented or discovered inventions or discoveries, the nentitled "LASER LIGHT SOURCE CO-PACKAGED WITH pereafter "Patent Application"),
WHEREAS (if the left box is checked), the Patent A	Application was filed with the U.S. Patent and er and
X WHEREAS (if the left box is checked), the Patent A Lieven Verslegers, Hong Liu, Kevin Yasumura, Jill Berger, and Littenberg, Krumholz & Mentlik, LLP, to insert in here in brack the application number and filing date of	d Ryohei Urata (and whereas I hereby authorize Lerner, David, kets [Application No. filed on
	se formed in <u>Delaware</u> and having a place of business at <u>1600</u> or, the "assignee") is desirous of acquiring, or has acquired and e entire right, title and interest in same;
as follows. I agree to assign, and hereby do assign, to the a Assigned Applications in the United States of America and a Patent Application, including any and all inventions, discover continuation, continuation-in-part, substitute, reissue, re-exa Patent Application pursuant to any law or treaty, and any pardo assign, to assignee the right to claim such priority or bene obligation to convey, my rights in the Assigned Applications Trademark Office, and any other governmental agency in the Assigned Applications and to record assignee's ownership the further remuneration, to execute and deliver documents preguch as testimony, as may be reasonably required to eviden Assignee may assign or transfer all or part of its rights set for	all other countries, where "Assigned Applications" means the ries and other subject matter described therein, any divisional, amination or other application claiming priority or benefit to the itent issuing from the foregoing. I agree to assign, and hereby effit. I have not previously conveyed, nor am I aware of an to a third party. I hereby authorize the U.S. Patent and it is world, to issue to assignee all patents resulting from the hereof. At assignee's reasonable request I agree, without pared at assignee's expense and to provide other cooperation, noe or protect assignee's rights in the Assigned Applications. On the herein in its sole discretion. I agree that the assignee may the of its acceptance of the provisions hereof. If any provision hall remain to the full extent permissible by law and the
9/28/2020	Fill D. Rerger
(Date)	40CFCDE81D8F4C9 (Signature)

Docket Number (Optional)

ASSIGNMENT OF PATENT AFFEIGAT	1014	GOOGLE 3.0F-3181
WHEREAS, I, <u>Ryohei Urata</u> of <u>San Carlos, California</u> subject matter of which is described in the patent application of PHOTONIC INTEGRATED CIRCUIT AND SUBSTRATE" (her	entitled "LAS	SER LIGHT SOURCE CO-PACKAGED WITH
WHEREAS (if the left box is checked), the Patent Ap Trademark Office on, Application Number		
X WHEREAS (if the left box is checked), the Patent Ap Lieven Verslegers, Hong Liu, Kevin Yasumura, Jill Berger, and Littenberg, Krumholz & Mentlik, LLP, to insert in here in bracke the application number and filing date of	Ryohei Urati ts [Application	a (and whereas I hereby authorize Lerner, David, on No, filed on
WHEREAS, <u>Google LLC</u> , incorporated or otherwise <u>Amphitheatre Parkway</u> ; <u>Mountain View</u> , <u>CA 94043</u> (hereafter, is desirous of memorializing its acquisition further herein, the experiments of the second s	the "assigne	ee") is desirous of acquiring, or has acquired and
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9/24/2020 (Date)	6F0A702E	

PATENT REEL: 053917 FRAME: 0784

RECORDED: 09/29/2020