

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT7115992

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Anna Darling Goldie	04/23/2021
Azalia Mirhoseini	04/23/2021
Ebrahim Songhori	04/23/2021
Wenjie Jiang	04/23/2021
Shen Wang	04/23/2021
Roger David Carpenter	04/23/2021
Young-Joon Lee	04/23/2021
Mustafa Nazim Yazgan	05/21/2021
Chian-min Richard Ho	04/23/2021
Quoc V. Le	04/23/2021
James Laudon	04/23/2021
Jeffrey Adgate Dean	04/23/2021
Kavya Srinivasa Setty	04/23/2021
Omkar Pathak	04/23/2021

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:	17555085

CORRESPONDENCE DATA

Fax Number: (877)769-7945

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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ATTORNEY DOCKET NUMBER: 16113-9851002

NAME OF SUBMITTER: FALLON ODANIEL

SIGNATURE: /Fallon ODaniel/

DATE SIGNED: 01/12/2022

Total Attachments: 4

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ASSIGNMENT and CONFIRMATION

We, Anna Darling Goldie, Azalia Mirhoseini, Ebrahim Songhori, Wenjie Jiang, Shen Wang, Roger David Carpenter, Young-Joon Lee, Mustafa Nazim Yazgan, Chian-min Richard Ho, Quoc V. Le, James Laudon, Jeffrey Adgate Dean, Kavya Srinivasa Setty and Omkar Pathak, each hereby confirm the assignment and transfer to Google LLC, a Delaware limited liability company having a place of business at 1600 Amphitheatre Parkway, Mountain View, California 94043, and its successors and assigns (collectively, "ASSIGNEE") of all of our individual and joint right, title and interest throughout the world in and to any and all inventions and improvements that are the subject or subjects of a patent application entitled

GENERATING INTEGRATED CIRCUIT PLACEMENTS USING NEURAL NETWORKS

that names us as inventors, and was filed in the United States Patent and Trademark Office (USPTO) on April 22, 2021 as Application No. 17/238,128, and the in the PCT Receiving Office of the United States Patent and Trademark Office (USPTO) on April 22, 2021 as Application No. PCT/US2021/028713, and which claims priority to U.S. Application Serial No. 63/014,021, filed on April 22, 2020, which was previously assigned to Assignee. We authorize and request the attorneys filing the application to complete this assignment by inserting the filing date and serial number of the application when known. The foregoing assignment and transfer occurred by operation of one or more agreements relating to our employment by Google LLC or an affiliate of Google LLC. Should any of us have any remaining interest, we each hereby assign and transfer any right, title or interest we may have in the above-mentioned inventions and improvements anywhere in the world to ASSIGNEE.

This assignment and confirmation includes the foregoing patent application or patent; all legal equivalents thereof in any country and all patents issuing therefrom; all patents, utility models, and design registrations granted for any of said inventions and improvements throughout the world; and the right to claim priority based on the filing date of the foregoing patent application or patent under the International Convention for


the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes. We authorize ASSIGNEE to apply in all countries in our names or in the name of ASSIGNEE for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for the assigned inventions and improvements.

The foregoing assignments have been made for good and valuable consideration, the receipt of which is hereby acknowledged, and in accordance with the employment-related agreements existing at the time the above-mentioned inventions and improvements were made.

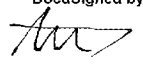
We hereby represent and covenant that no assignment, agreement or encumbrance has been or will be made or entered into by us that would conflict with the above-mentioned assignment of the inventions and improvements to ASSIGNEE.

We further covenant for ourselves and our respective heirs, legal representatives and assigns to provide to ASSIGNEE promptly upon the request of ASSIGNEE all pertinent facts and documents relating to any of the above-mentioned inventions and improvements, patent applications, patents and legal equivalents, as may be known and accessible to us; to testify as to the same in any interference, litigation, or proceeding relating thereto; and promptly to execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue or enforce any of the above-mentioned applications, inventions and improvements, patents and equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

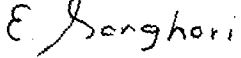
Dated: 4/23/2021

DocuSigned by:

E9387D5E040746E
Anna Darling Goldie

Dated: 4/23/2021

DocuSigned by:

9DCD8134E8704E9
Azalia Mirhoseini

Dated: 4/23/2021

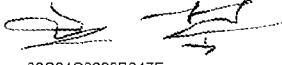
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Ebrahim Songhori

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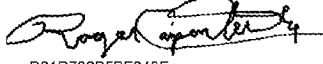
DocuSigned by:

915D9C4EB436490
Wenjie Jiang


Dated: 4/23/2021

DocuSigned by:

09694C9699B847E
Shen Wang

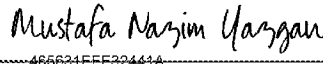
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DocuSigned by:

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Roger David Carpenter

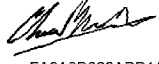
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199B54E40029400
Young-Joon Lee

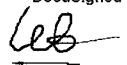
Dated: 5/21/2021

DocuSigned by:

486634EFE32441A
Mustafa Nazim Yazgan


Dated: 4/23/2021

DocuSigned by:

FA6A2D322ADB4AA
Chian-min Richard Ho

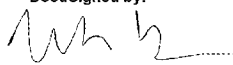
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DocuSigned by:

7D78D7C07556483
Quoc V. Le

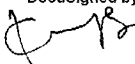
Dated: 4/23/2021 _____

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634E1CB3EDG34FE
James Laudon

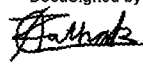
Dated: 4/23/2021 _____

DocuSigned by:

6122354CF82748D
Jeffrey Adgate Dean

Dated: 4/23/2021 _____

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7828FC9BF2E6476
Kavya Srinivasa Setty

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Omkar Pathak

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