

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT5988119

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| DANIEL COTTING | 05/15/2019 |
| ZAHEED SABUR | 05/16/2019 |
| LAN HUO | 05/17/2019 |
| BRYAN CHRISTOPHER HORLING | 05/15/2019 |
| BEHSHAD BEHZADI | 05/15/2019 |
| LUCAS MIRELMANN | 05/15/2019 |
| MICHAEL GOLIKOV | 05/15/2019 |
| DENIS BURAKOV | 05/15/2019 |
| STEVE CHENG | 05/15/2019 |
| BOHDAN VLASYUK | 05/20/2019 |
| SERGEY NAZAROV | 05/29/2019 |
| MARIO BERTSCHLER | 05/16/2019 |
| LUV KOTHARI | 05/17/2019 |
| 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: | 16621559 |
| CORRESPONDENCE DATA | |
| Fax Number: | (502)588-1948 |
| <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> | |
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| Email: | jrooks@middletonlaw.com |
| Correspondent Name: | MIDDLETON REUTLINGER |
| Address Line 1: | 401 S. 4TH STREET |

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|------------------------|----------------------------|
| Address Line 2: | SUITE 2600 |
| Address Line 4: | LOUISVILLE, KENTUCKY 40202 |

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| ATTORNEY DOCKET NUMBER: | ZS202-20203 |
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| NAME OF SUBMITTER: | SCOTT W. HIGDON |
|---------------------------|-----------------|

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|-------------------|-------------------|
| SIGNATURE: | /Scott W. Higdon/ |
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|---------------------|------------|
| DATE SIGNED: | 02/28/2020 |
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Total Attachments: 2

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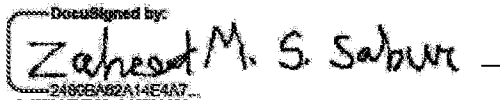
ASSIGNMENT

For valuable consideration, we, Daniel Cotting of Islisberg, Switzerland; Zaheed Sabur of Baar, Switzerland; Lan Huo of New York, New York; Bryan Horling of Belmont, Massachusetts; Behshad Behzadi of Freienbach, Switzerland; Lucas Mirelmann of Zurich, Switzerland; Michael Golikov of Merlischachen, Switzerland; Denis Burakov of Zurich, Switzerland; Steve Cheng of Los Altos, California; Bohdan Vlasyuk of Zurich, Switzerland; Sergey Nazarov having a mailing address in Zurich, Switzerland; Mario Bertschler of Zurich, Switzerland, and Luv Kothari of Sunnyvale, California; hereby assign to: Google LLC, a limited liability company of Delaware having a place of business at: 1600 Amphitheatre Parkway, Mountain View, California 94043; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of a Patent Cooperation Treaty Application signed by us, entitled **Proactive Caching Of Assistant Action Content At A Client Device To Enable On-Device Resolution Of Spoken Or Typed Utterances**, filed May 31, 2019, and assigned Application Number PCT/US2019/034911, we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and application number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application 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; and we authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.


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Date: 5/15/2019

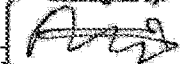
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Date: 5/29/2019

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Date: 5/16/2019

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Date: 5/17/2019