

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| MICHAEL KROEPFL | 09/03/2020 |
| AMIR AKBARZADEH | 09/04/2020 |
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| VADIM CUGUNOV | 09/08/2020 |
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| BIRGIT HENKE | 09/03/2020 |
| IBRAHIM EDEN | 09/10/2020 |
| YOU DING ZHU | 09/04/2020 |
| MICHAEL GRABNER | 09/03/2020 |
| IVANA STOJANOVIC | 09/03/2020 |
| YU SHENG | 09/03/2020 |
| JEFFREY LIU | 09/03/2020 |
| ENLIANG ZHENG | 09/30/2020 |
| JORDAN MARR | 09/03/2020 |
| ANDREW CARLEY | 09/03/2020 |
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| PROPERTY NUMBERS Total: 3 | |
| Property Type | Number |
| Application Number: | 17008100 |
| Application Number: | 17007873 |
| Application Number: | 17008074 |

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| ATTORNEY DOCKET NUMBER: | 19-RE-0321 |
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| SIGNATURE: | /Kirk D. Bacon/ |
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| | |
|---------------------|------------|
| DATE SIGNED: | 10/28/2020 |
|---------------------|------------|

Total Attachments: 5

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ASSIGNMENT

WHEREAS, we, Michael Kroepfl, Amir Akbarzadeh, Ruchi Bhargava, Vaibhav Thukral, Neda Cvijetic, Vadim Cugunovs, David Nister, Birgit Henke, Ibrahim Eden, Youding Zhu, Michael Grabner, Ivana Stojanovic, Yu Sheng, Jeffrey Liu, Enliang Zheng, Jordan Marr and Andrew Carley (“ASSIGNORS”), are the original and joint inventors of subject matter disclosed and/or claimed in a nonprovisional patent application, the title of which is:

MAP CREATION AND LOCALIZATION FOR AUTONOMOUS DRIVING APPLICATIONS
which was filed on August 31, 2020 and given application No. 17/007,873; and

WHEREAS, NVIDIA Corporation (“ASSIGNEE”), a corporation duly organized under the laws of the State of Delaware, and having its principal place of business at 2788 San Tomas Expressway, Santa Clara, California 95051, USA, is desirous of acquiring an interest in, to and under said invention, said application and any and all Letters Patent which may be granted for or upon said invention in the United States of America and all countries foreign thereto;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right, title and interest, throughout the world, in, to and under said invention as fully set forth and described in the above-identified application; in, to and under said application; in, to and under any and all refilings, divisions and continuations of said application; in, to and under any and all Letters Patent of the United States of America which may issue from said application, refilings, divisions and continuations; in, to and under any and all reissues of said Letters Patent of the United States of America; in, to and under any and all applications for Letters Patent upon said invention which may hereafter be filed in any and all

countries foreign to the United States of America; in, to and under any and all refilings, divisions and continuations of said foreign-filed applications; in, to and under any and all Letters Patent of countries foreign to the United States of America, which may issue from the said foreign-filed applications, refilings, divisions and continuations; and in, to and under any and all extensions of, and additions to, said Letters Patent of countries foreign to the United States of America, the same to be held and enjoyed by said ASSIGNEE, for its own use and behoof, and for its successors, legal representatives and assigns, to the full end of the term for which said Letters Patent may be granted, and ASSIGNORS do hereby authorize and request the Commissioner of Patents to issue the said Letters Patent in accordance with this assignment.

ASSIGNORS hereby further agree that we will communicate to ASSIGNEE, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid ASSIGNEE, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

EXECUTED this Sep 3, 2020 day of Sep 3, 2020, 2020.

Michael Kroepfl
Michael Kroepfl (Sep 3, 2020 05:27 PDT)

Michael Kroepfl

EXECUTED this Sep 4, 2020 day of Sep 4, 2020, 2020.

Amir Akbarzadeh
Amir Akbarzadeh (Sep 4, 2020 00:10 PDT)

Amir Akbarzadeh

EXECUTED this Sep 4, 2020 day of Sep 4, 2020, 2020.

Ruchi Bhargava

Ruchi Bhargava (Sep 4, 2020 01:07 PM)

Ruchi Bhargava

EXECUTED this Sep 3, 2020 day of Sep 3, 2020, 2020.

Vaibhav Thukral

Vaibhav Thukral (Sep 3, 2020 10:05 PM)

Vaibhav Thukral

EXECUTED this Sep 3, 2020 day of Sep 3, 2020, 2020.

Neda Cvijetic

Neda Cvijetic (Sep 3, 2020 07:47 PM)

Neda Cvijetic

EXECUTED this Sep 8, 2020 day of Sep 8, 2020, 2020.

Vadim Cugunovs

Vadim Cugunovs (Sep 8, 2020 09:24 PM)

Vadim Cugunovs

EXECUTED this Sep 3, 2020 day of Sep 3, 2020, 2020.

David Nister

David Nister (Sep 3, 2020 11:18 PM)

David Nister

EXECUTED this Sep 3, 2020 day of Sep 3, 2020, 2020.

Birgit Henke

Birgit Henke (Sep 3, 2020 07:50 PM)

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EXECUTED this Sep 10, 2020 day of Sep 10, 2020, 2020.

Ibrahim Eden
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EXECUTED this Sep 4, 2020 day of Sep 4, 2020, 2020.

Youding Zhu
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Michael Grabner
Michael Grabner (Sep 3, 2020 07:46 PDT)

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Ivana Stojanovic
Ivana Stojanovic (Sep 3, 2020 10:05 PDT)

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Yu Sheng
Yu Sheng (Sep 3, 2020 1:28 PDT)

Yu Sheng

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Jeffrey Liu
Jeffrey Liu (Sep 4, 2020 09:08 PDT)

Jeffrey Liu

EXECUTED this Sep 30, 2020 day of Sep 30, 2020, 2020.

Enliang Zheng
Enliang Zheng (Sep 30, 2020 14:16 PDT)

Enliang Zheng

EXECUTED this Sep 3, 2020 day of Sep 3, 2020, 2020.

Marr
Jordan Marr (Sep 3, 2020 12:26 PDT)

Jordan Marr

EXECUTED this Sep 3, 2020 day of Sep 3, 2020, 2020.

Andrew Carley
Andrew Carley (Sep 3, 2020 11:36 PDT)

Andrew Carley