

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT7338481

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|---|---|-----------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT  |                       |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT  |                       |
| <b>CONVEYING PARTY DATA</b>   |   |                       |
|   | <b>Name</b>   | <b>Execution Date</b> |
|   | UBER TECHNOLOGIES, INC.                                   | 07/01/2019            |
| <b>RECEIVING PARTY DATA</b>   |   |                       |
| <b>Name:</b>  | UATC, LLC   |                       |
| <b>Street Address:</b>  | 1455 MARKET ST  |                       |
| <b>Internal Address:</b>  | 4TH FLOOR   |                       |
| <b>City:</b>  | SAN FRANCISCO   |                       |
| <b>State/Country:</b>   | CALIFORNIA  |                       |
| <b>Postal Code:</b>   | 94103   |                       |
| <b>PROPERTY NUMBERS Total: 1</b>  |   |                       |
|   | <b>Property Type</b>                                      | <b>Number</b>         |
|   | Application Number:                                       | 17724902              |
| <b>CORRESPONDENCE DATA</b>  |   |                       |
| <b>Fax Number:</b>  | (864)233-7342   |                       |
| <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> |   |                       |
| <b>Phone:</b>   | 8642711592  |                       |
| <b>Email:</b>   | usdocketing@dority-manning.com, lglass@dority-manning.com |                       |
| <b>Correspondent Name:</b>  | DORITY & MANNING, P.A. AND UATC, LLC                      |                       |
| <b>Address Line 1:</b>  | POST OFFICE BOX 1449                                      |                       |
| <b>Address Line 4:</b>  | GREENVILLE, SOUTH CAROLINA 29602                          |                       |
| <b>ATTORNEY DOCKET NUMBER:</b>  | AURAT-215-CON   |                       |
| <b>NAME OF SUBMITTER:</b>   | JENNIFER L. ULSH  |                       |
| <b>SIGNATURE:</b>   | /Jennifer L. Ulsh/  |                       |
| <b>DATE SIGNED:</b>   | 05/19/2022  |                       |
| <b>Total Attachments: 26</b>  |   |                       |
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## PATENT ASSIGNMENT

This Patent Assignment (this "*Assignment*"), dated and effective as of July 1, 2019 (the "*Effective Date*"), is entered into by and among Uber Technologies, Inc., a Delaware corporation ("*Uber*"), Auto Horizon, LLC, a Delaware limited liability company ("*Auto Horizon*"), and UATC, LLC, a Delaware limited liability company ("*UATC*"). Uber, Auto Horizon and UATC are sometimes referred to herein individually as a "*Party*" and collectively as the "*Parties*."

WHEREAS, prior to the Effective Date, Uber, Rennpferd, LLC, a Delaware limited liability company and the sole Auto Horizon equity holder ("*Rennpferd*") and Auto Horizon entered into that certain Patent Distribution Agreement, dated as of June 29, 2019 (the "*Distribution Agreement*"), pursuant to which Auto Horizon distributed, transferred and assigned all right, title and interest in and to the patents and patent applications listed on the attached Exhibit A (the "*AH Patents*") owned by Auto Horizon to Rennpferd, and then Rennpferd immediately distributed, transferred and assigned all right, title and interest in and to the AH Patents to Uber (the "*AH Transfer*");

WHEREAS, prior to the Effective Date but following the completion of the AH Transfer, Uber, certain of Uber's subsidiaries and UATC entered into that certain Business Asset Contribution Agreement, dated as of June 30, 2019 (the "*Contribution Agreement*"), pursuant to which, among other things, Uber contributed, transferred and assigned to UATC all of Uber's right, title and interest in and to (i) the AH Patents and (ii) the patents and patent applications listed on the attached Exhibit B (the "*UTI Patents*"), and, together with the AH Patents, the "*Transferred Patents*").

NOW THEREFORE, for good and valuable consideration, the receipt of which is acknowledged, Auto Horizon (on behalf of Uber as the registered owner of the AH Patents) and Uber (collectively, the "*Registered Patent Holders*") hereby assign and transfer to UATC all right, title and interest in and to the Transferred Patents owned by the Registered Patent Holders including in and to any and all divisionals, continuations, continuations-in-part, substitutes, reexaminations, renewals, reissues and patents which have or which may be filed thereon or may be granted therefor, including any and all counterparts worldwide, including all right, title and interest in and to all income, royalties, damages and payments now or hereafter due or payable with respect to the Transferred Patents, and all causes of action (whether in law or equity) and the right to sue, counterclaim, and recover for the past, present and future infringement of the Transferred Patents.

Each of the Registered Patent Holders agree that if requested by UATC, without charge to either of them but at the cost and expense of UATC, each of the Registered Patent Holders will perform any reasonable action which may be necessary to secure and to vest in UATC the full and entire right, title and interest in, to and under the Transferred Patents, including promptly communicating and providing any and all known and accessible facts, data or any other pertinent information thereof and promptly executing and delivering any and all papers, documents, forms, declarations, oaths, affidavits and other legal instruments.

The Registered Patent Holders authorize and request any official of any country or countries, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to UATC, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

*[Counterpart Signature Pages Follow]*

IN WITNESS WHEREOF, the Parties have caused this Patent Assignment to be signed by a duly authorized representative to be effective as of July 1, 2019.

UBER TECHNOLOGIES, INC.

By   
Name: Francois Chadwick  
Title: VP, Tax & Accounting

*Please see attached*

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.

On \_\_\_\_\_, before me, \_\_\_\_\_, Notary Public, personally appeared \_\_\_\_\_, personally known to me or proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_  
Signature of Notary Public

Place Notary Seal Above

My Commission Expires: \_\_\_\_\_

*Signature Page to Patent Assignment*

## ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California  
County of San Francisco

On 7/1/2019 before me, James Wiley Molito, Notary Public  
(insert name and title of the officer)

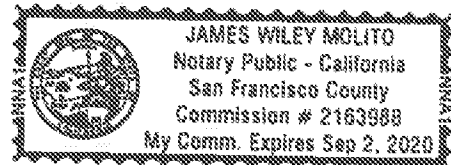
personally appeared Francis Chadwick  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Signature]

(Seal)



IN WITNESS WHEREOF, the Parties have caused this Patent Assignment to be signed by a duly authorized representative to be effective as of July 1, 2019.

AUTO HORIZON, LLC

By: 

Name: Francois Chadwick

Title: Manager

*Please  
see  
attached*

State of \_\_\_\_\_ )

County of \_\_\_\_\_ ) ss.

On \_\_\_\_\_, before me, \_\_\_\_\_, Notary Public, personally appeared \_\_\_\_\_, personally known to me or proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_  
Signature of Notary Public

Place Notary Seal Above

My Commission Expires: \_\_\_\_\_

*Signature Page to Patent Assignment*

## ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California  
County of San Francisco

On 7/1/2019 before me, James Wiley Molito, Notary Public  
(insert name and title of the officer)

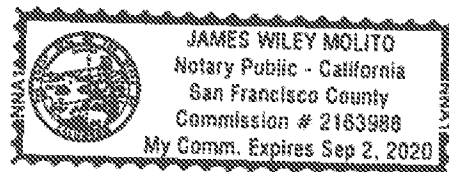
personally appeared Francis Chadwick  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Signature]

(Seal)





IN WITNESS WHEREOF, the Parties have caused this Patent Assignment to be signed by a duly authorized representative to be effective as of July 1, 2019.

UATC, LLC

By: [Signature]  
Name: Keir Gumbs  
Title: Manager

State of                      ) District of Columbia  
County of                      ) ss.  
On July 2nd, 2019, before me, Morgan Harris, Notary Public,  
personally appeared Keir Gumbs, personally known to me or  
proved to me on the basis of satisfactory evidence, to be the person(s) whose name(s) is/are subscribed  
to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their  
authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the  
entity upon behalf of which the person(s) acted, executed the instrument.

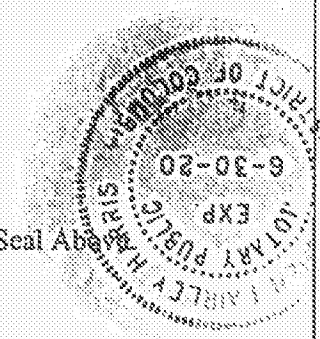
WITNESS my hand and official seal.

[Signature]  
Signature of Notary Public

MORGHEN FAIRLEY HARRIS  
NOTARY PUBLIC DISTRICT OF COLUMBIA  
My Commission Expires June 30, 2023

Place Notary Seal Above

My Commission Expires:                     



Signature Page to Patent Assignment

**Exhibit B**

**UTI Patents**

**PATENT**

**REEL: 060117 FRAME: 0698**

UP-00803US      Systems and Methods for Remote Status      12/14/2018 16/220,406      5/18/2018      0      US      United States      Pending

UP-00803USP Systems and Methods for Remote Status  
Detection of Autonomous Vehicles

5/18/2018 62/673,227

5/18/2018

1

US

United States

Pending

UP-00698USP2      Gridlock Solver for Motion Planning  
System of an Autonomous Vehicle

6/6/2018 62/681,482

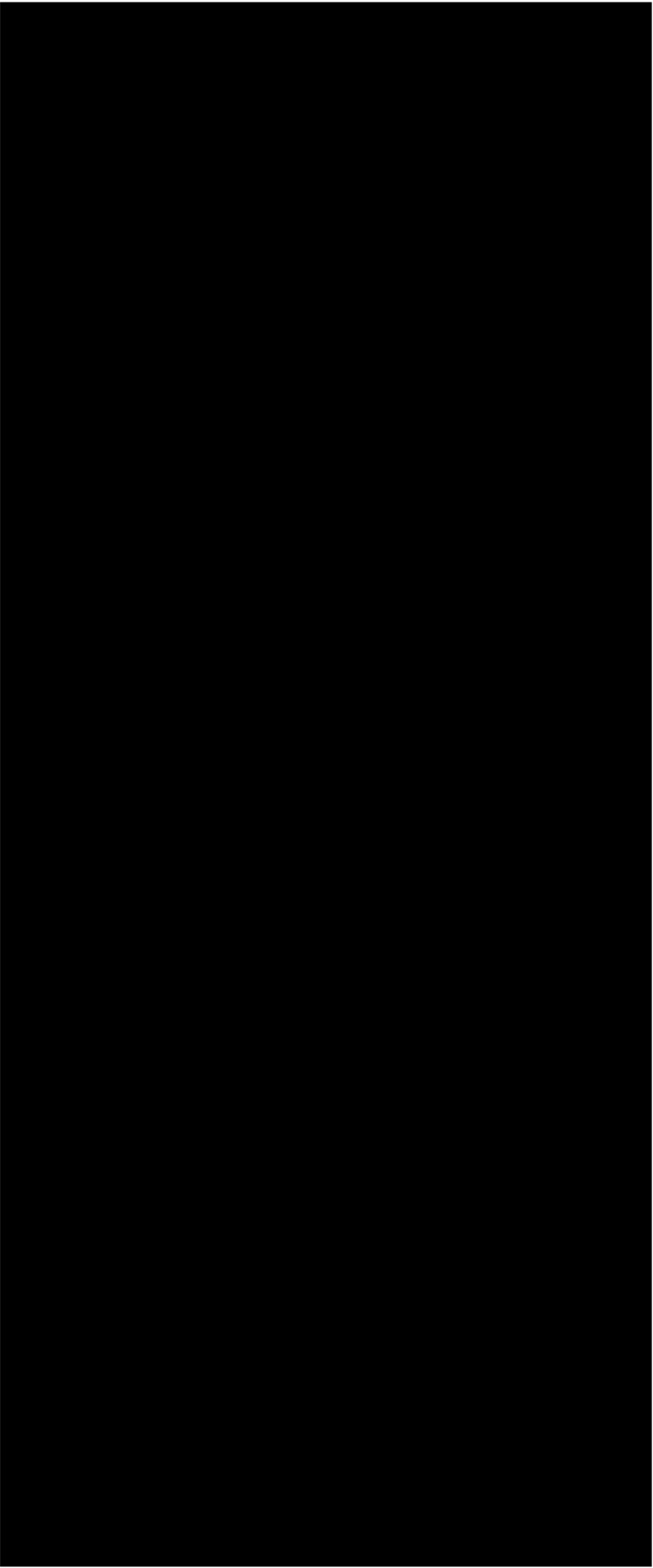
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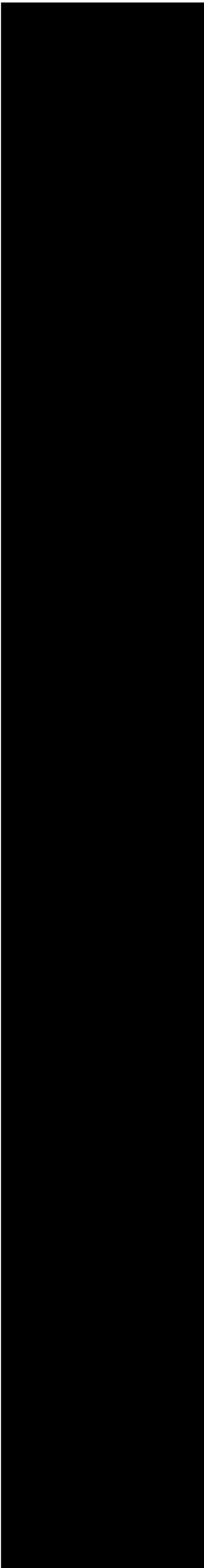
Pending



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| UP-00901US | Gridlock Solver for Motion Planning<br>System of an Autonomous Vehicle | 9/11/2018 16/127,786 | 6/6/2018 | 0 | US | United States | Pending |
|------------|--|----------------------|----------|---|----|---------------|---------|

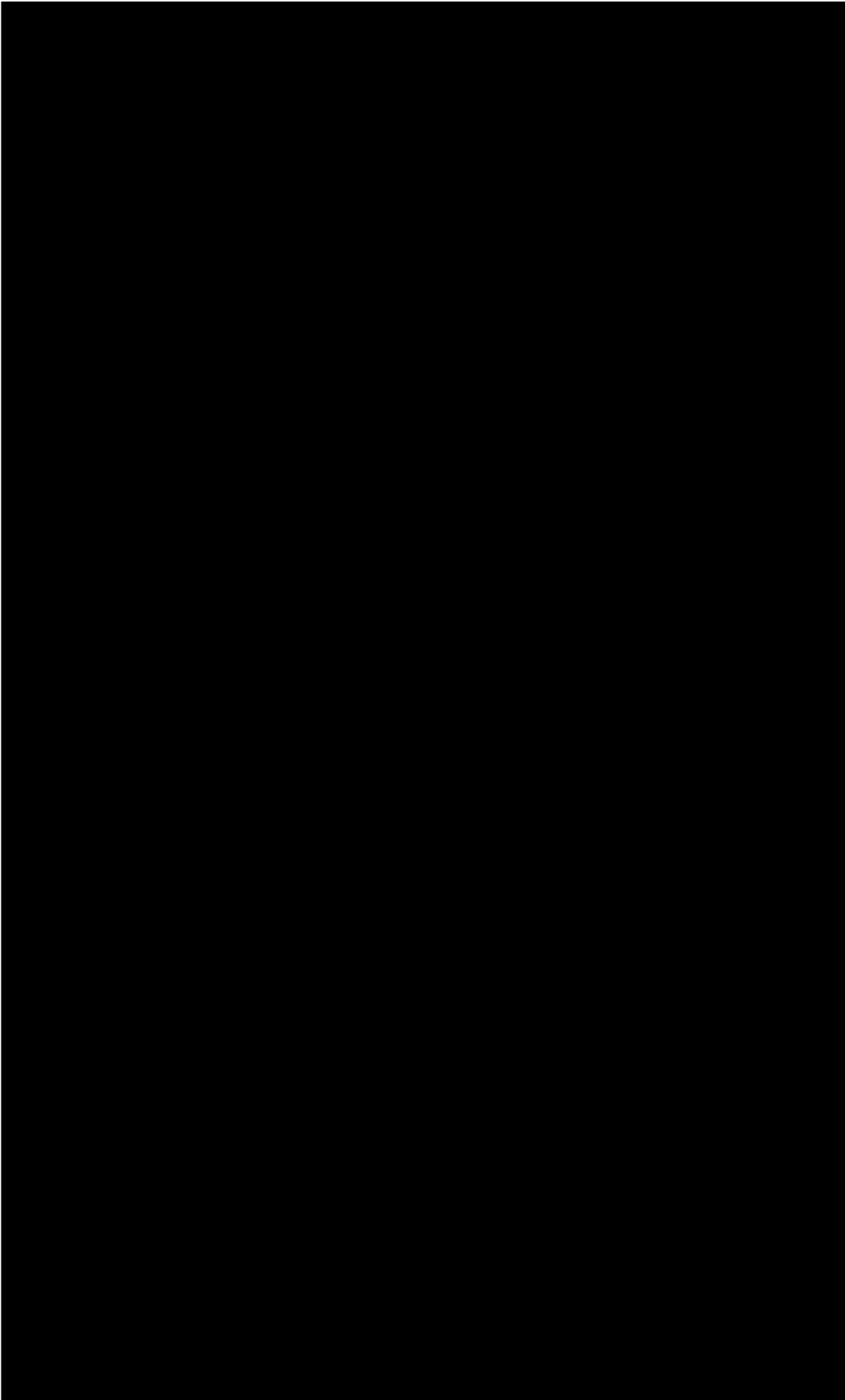


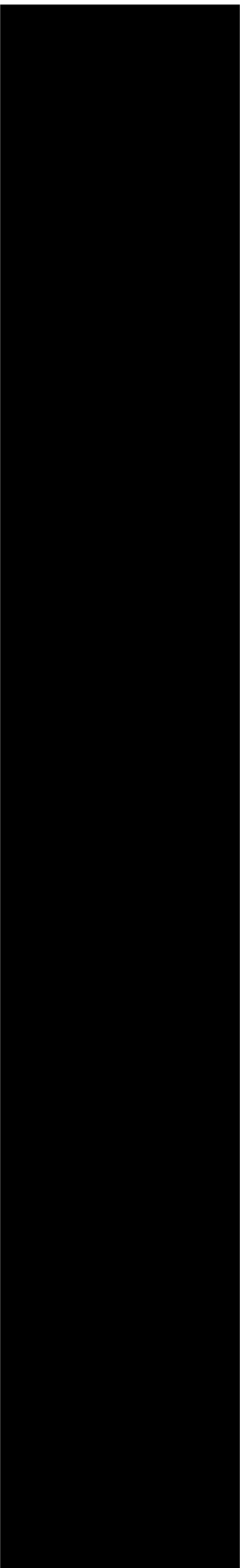
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|------------|---|----------------------|-----------|---|----|---------------|---------|
| UP-00796US | Initial Trajectory Generator for Motion<br>Planning System of Autonomous Vehicles | 6/15/2018 16/009,572 | 5/11/2018 | 0 | US | United States | Pending |
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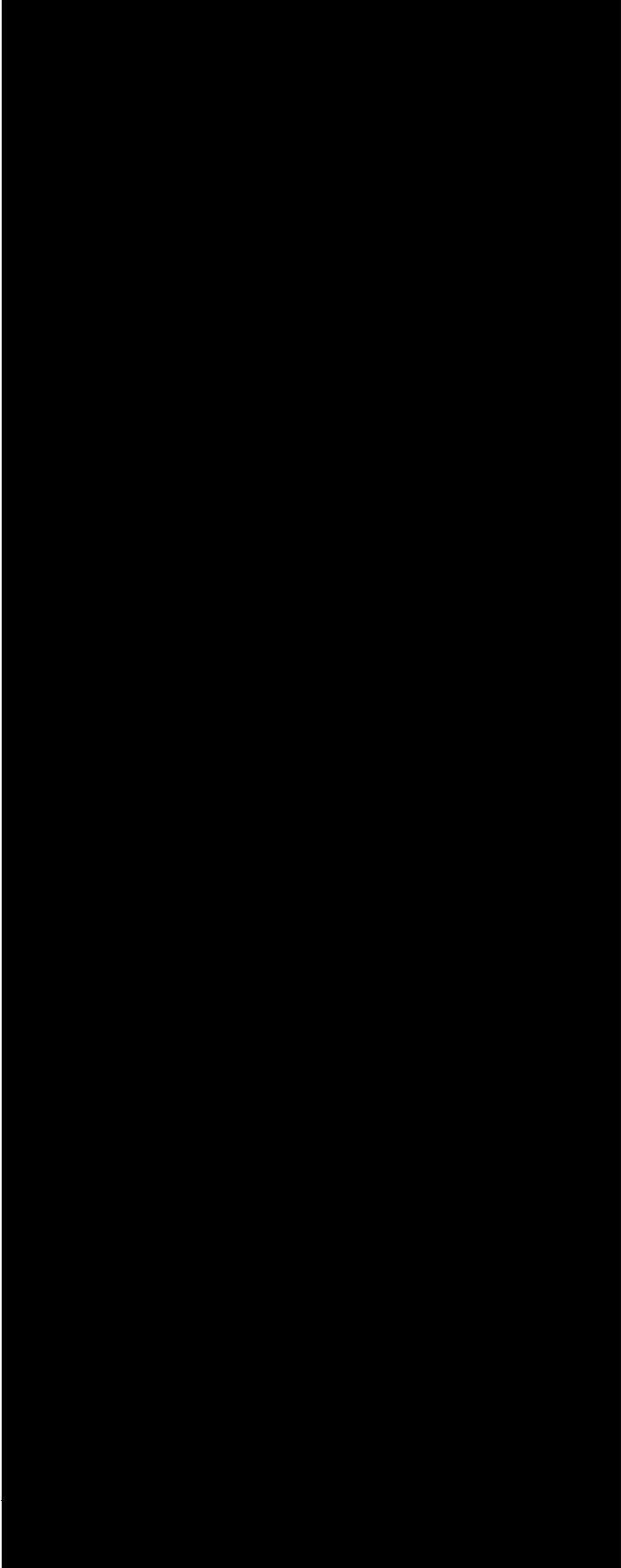


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| UP-00796USP | Initial Trajectory Generator for Motion Planning System of Autonomous Vehicles | 5/11/2018 62/670,330 | 5/11/2018 | 1 | US | United States | Pending |
|-------------|--|----------------------|-----------|---|----|---------------|---------|





UP-00856USP Systems and Methods for Pipelined Processing Of Sensor Data Using Hardware 6/8/2018 62/682,550 6/8/2018 1 US United States Pending



UP-00403US LIDAR SENSOR ASSEMBLY INCLUDING DOVE-TAIL JOINT COUPLING FEATURES 5/15/2018 15/980,669 5/15/2018 0 US United States Pending

UP-00856US Systems and Methods for Pipelined Processing of Sensor Data Using Hardware 9/14/2018 16/131,529 6/8/2018 0 US United States Pending





UP-00825US Platform Configurations for Autonomous Vehicles 7/25/2018 16/045,081 7/3/2018 0 US United States Pending



|             |   |                      |           |   |    |                       |
|-------------|---|----------------------|-----------|---|----|-----------------------|
|             |   |                      |           |   |    |                       |
|             |   |                      |           |   |    |                       |
| UP-00846USP | Generation of Polar Occlusion Maps for Autonomous Vehicles          | 7/25/2018 62/703,167 | 7/25/2018 | 1 | US | United States Pending |
|             |   |                      |           |   |    |                       |
|             |   |                      |           |   |    |                       |
| UP-00833USP | Providing Actionable Uncertainties in Autonomous Vehicles           | 6/28/2018 62/691,124 | 6/28/2018 | 1 | US | United States Pending |
|             |   |                      |           |   |    |                       |
| UP-00789US  | Object Detection and Property Determination for Autonomous Vehicles | 7/18/2018 16/038,740 | 5/17/2018 | 0 | US | United States Pending |
|             |   |                      |           |   |    |                       |
| UP-00835US  | Providing Actionable Uncertainties in Autonomous Vehicles           | 7/24/2018 16/043,759 | 6/28/2018 | 0 | US | United States Pending |
|             |   |                      |           |   |    |                       |
|             |   |                      |           |   |    |                       |
| UP-00789USP | Object Detection and Property Determination for Autonomous Vehicles | 5/17/2018 62/672,745 | 5/17/2018 | 1 | US | United States Pending |
|             |   |                      |           |   |    |                       |

UP-00846US      Generation of Polar Occlusion Maps for  
Autonomous Vehicles

8/7/2018 16:057.167

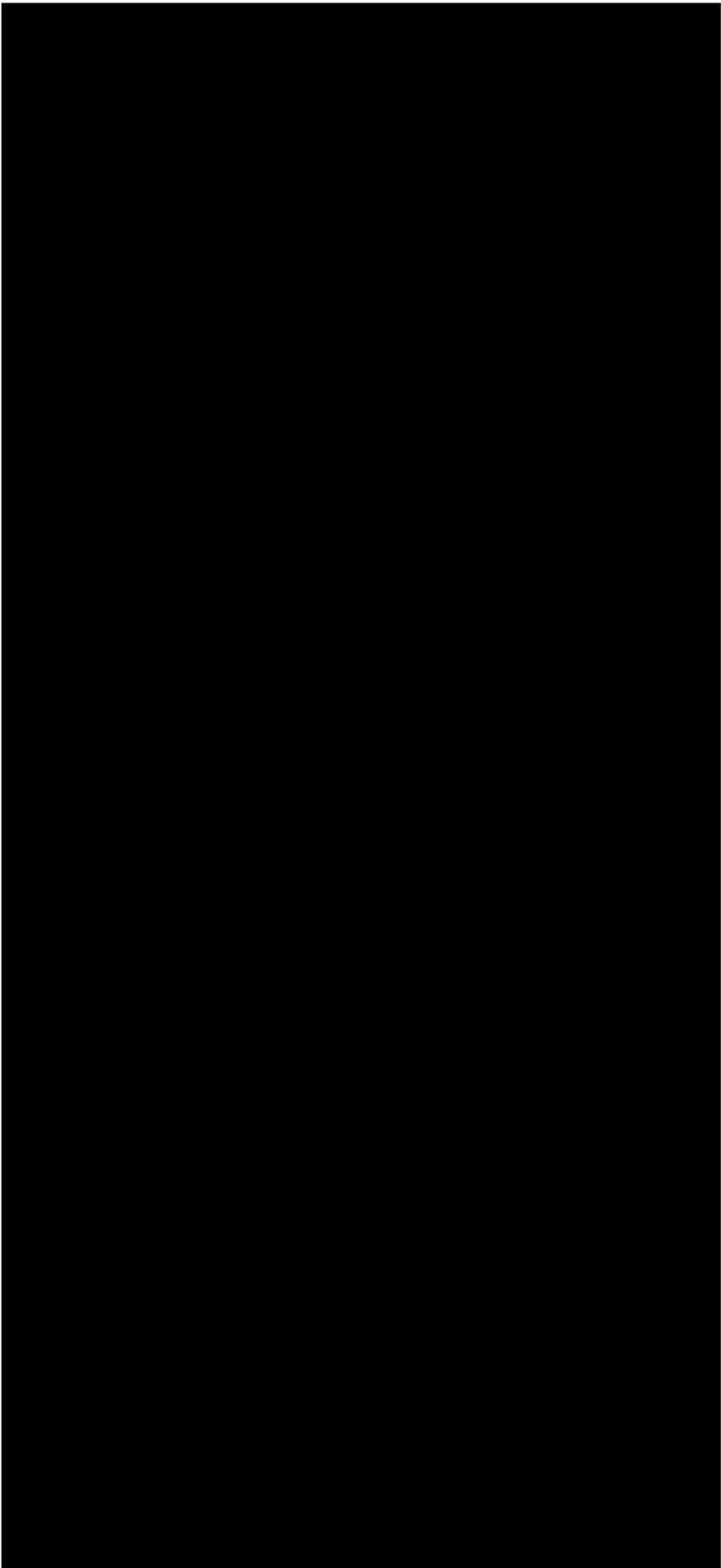
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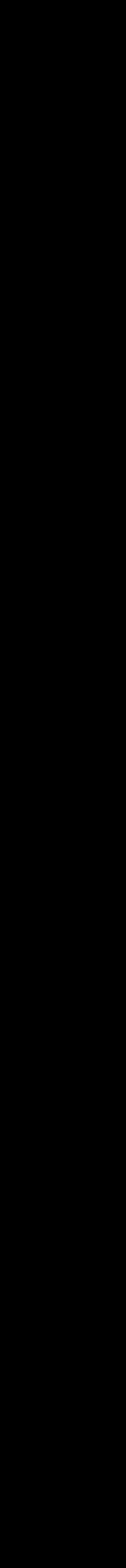
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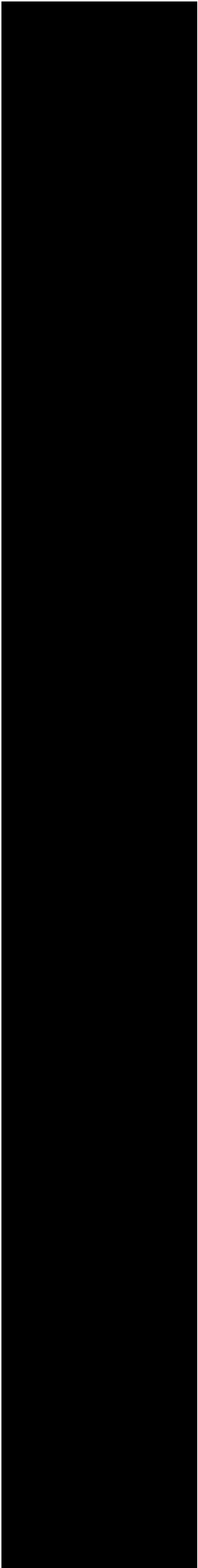
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| UP-00872US | System and Method for Determining<br>Object Intention Through Visual Attributes | 2/26/2019 | 16/286,160 | 6/15/2018 | 0 | US | United States | Pending |
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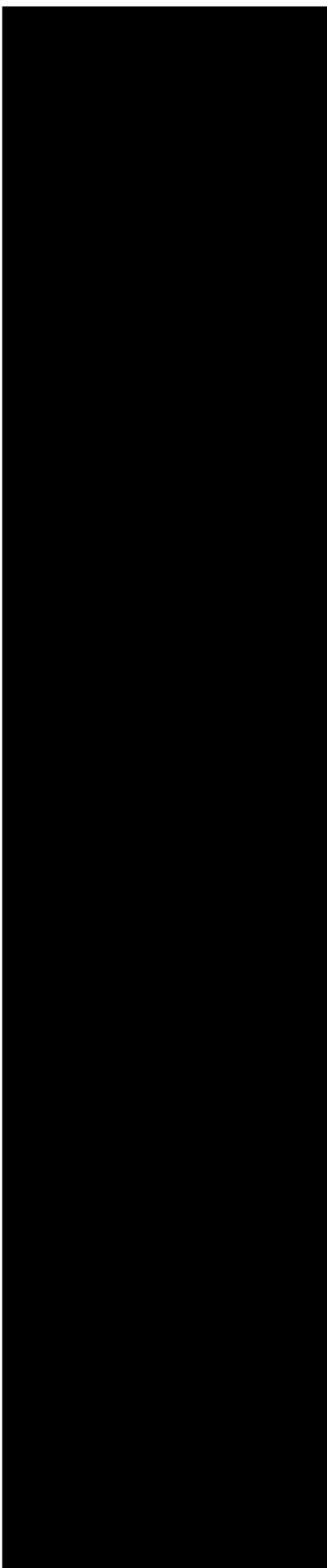
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| UP-00872USP1 | Predicting Intent of Drivers Through Visual<br>Attributes | 6/15/2018 | 62/685,714 | 6/15/2018 | 1 | US | United States | Pending |
| UP-00872USP1 | Learning to Predict Intention from Raw<br>Sensor Data     | 6/15/2018 | 62/685,708 | 6/15/2018 | 1 | US | United States | Pending |



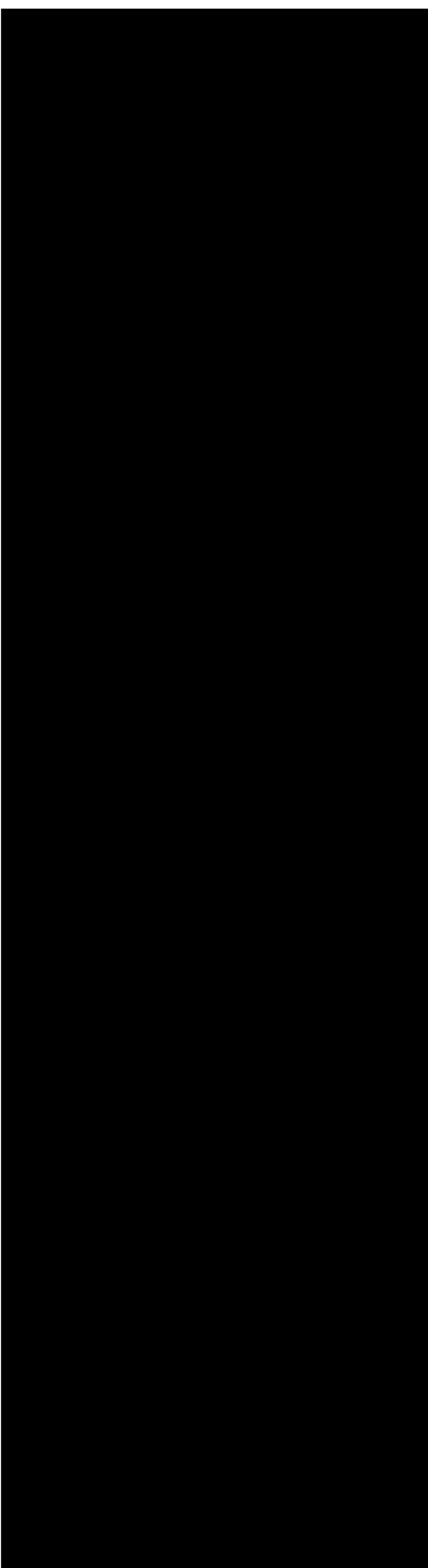




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| UP-00848USP | Systems and Methods for Autonomous Vehicle Operator Vigilance Management | 7/27/2018 62/711,044 | 7/27/2018 | 1 | US | United States | Pending |
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| UP-00827USP | Passenger Health Monitoring and Intervention for Autonomous Vehicles | 6/26/2018 62/690,032 | 6/26/2018 | 1 | US | United States | Pending |
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[REDACTED]

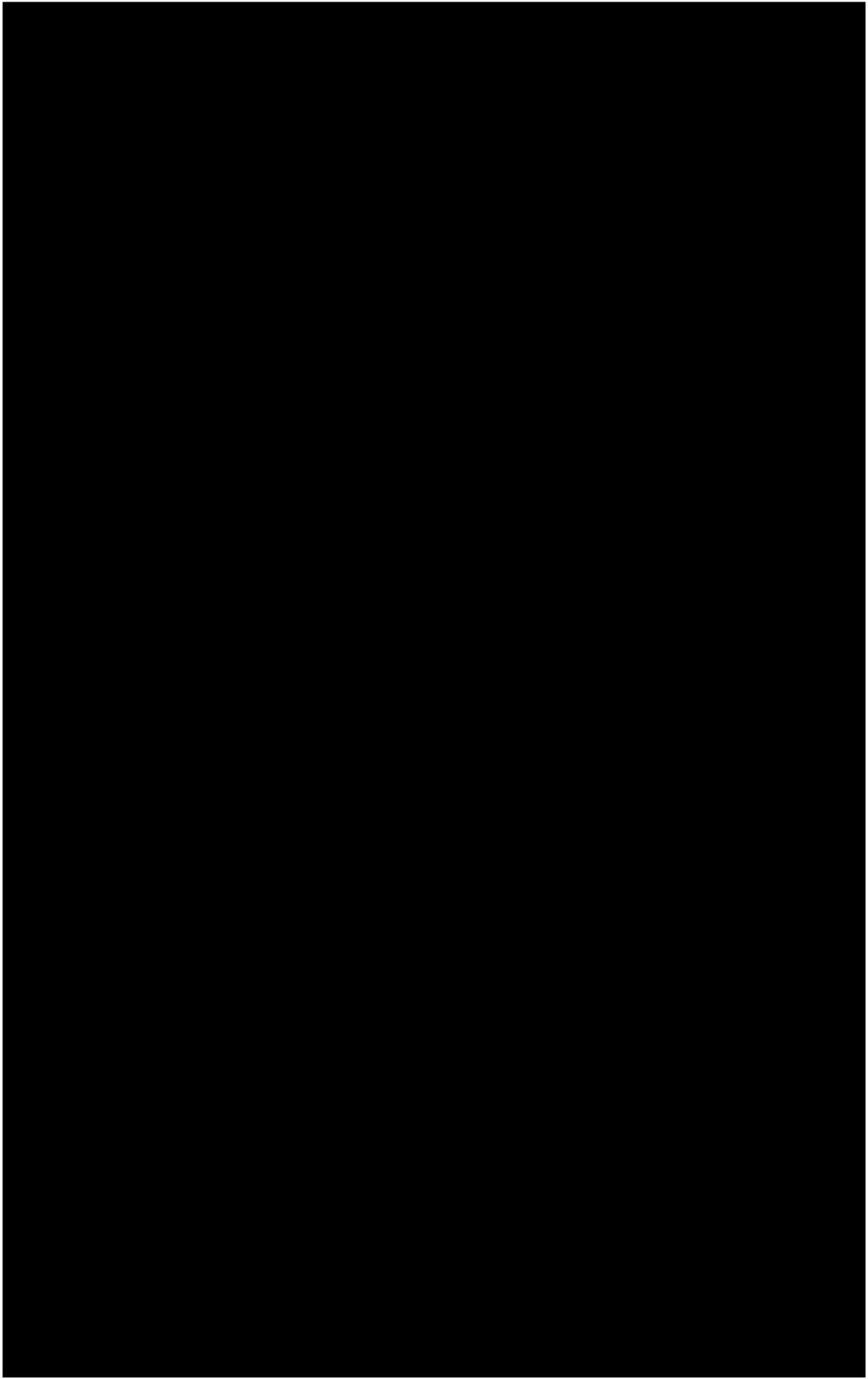
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| UP-00854USP | Integration Platform for Autonomous Vehicles | 7/27/2018 | 62/711,150 | 7/27/2018 | 1 | US | United States | Pending |
|-------------|--|-----------|------------|-----------|---|----|---------------|---------|

|            |  |            |            |           |   |    |               |         |
|------------|--|------------|------------|-----------|---|----|---------------|---------|
| UP-00854US | Integration Platform for Autonomous Vehicles | 10/30/2018 | 16/174,974 | 7/27/2018 | 0 | US | United States | Pending |
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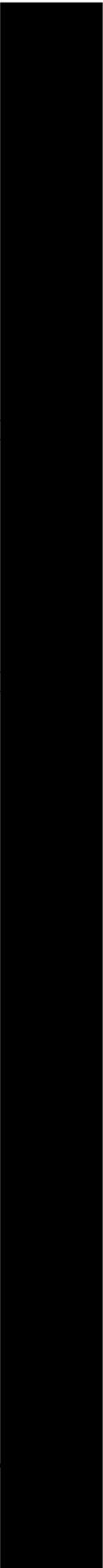
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| UP-00806USP1 | Autonomous Vehicle Idle State Task                  |                      |           |   |    |         |
|              | Selection for Improved Computational Resource Usage | 7/23/2018 62/702,041 | 7/23/2018 | 1 | US | Pending |
| UP-00807USP1 | Selective Activation of Autonomous Vehicles         | 5/16/2018 62/672,245 | 5/16/2018 | 1 | US | Pending |



UP-00822US      Movable Front Shield for Vehicles      6/20/2018 16/013,361      5/31/2018      0      US      United States      Pending



|             |  |                      |           |   |    |                       |
|-------------|--|----------------------|-----------|---|----|-----------------------|
|             |  |                      |           |   |    |                       |
| UP-00855US  | Palette System for Cargo Transport   | 8/14/2018 16/103.164 | 7/31/2018 | 0 | US | United States Pending |
|             |  |                      |           |   |    |                       |
| UP-00855USP | Palette System for Cargo Transport Apparatus for Positioning an Interactive-Display Device within an Interior of an Autonomous Vehicle | 7/31/2018 62/712,281 | 7/31/2018 | 1 | US | United States Pending |
| UP-00824USP | Interior Arrangements for Autonomous Vehicles  | 5/22/2018 62/674,761 | 5/22/2018 | 1 | US | United States Pending |
| UP-00823USP | Movable Front Shield for Vehicles  | 5/22/2018 62/674,753 | 5/22/2018 | 1 | US | United States Pending |
| UP-00822USP |  | 5/31/2018 62/678,320 | 5/31/2018 | 1 | US | United States Pending |
|             |  |                      |           |   |    |                       |



|            |  |                      |           |   |    |               |         |
|------------|--|----------------------|-----------|---|----|---------------|---------|
|            | Apparatus for Positioning an Interactive-<br>Display Device within an Interior of an<br>Autonomous Vehicle | 6/18/2018 16/010,757 | 5/22/2018 | 0 | US | United States | Pending |
| UP-00824US | INTERIOR ARRANGEMENTS FOR<br>AUTONOMOUS VEHICLES   | 6/18/2018 16/010,720 | 5/22/2018 | 0 | US | United States | Pending |

