

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5653377

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
LINA DONG	07/16/2019
WEIYI HOU	07/17/2019
SOMESH KHANDELWAL	07/15/2019
IVAN KIRIGIN	07/16/2019
SHAOJING LI	07/15/2019
YING LIU	07/17/2019
DAVID TSE-ZHOU LU	08/01/2019
ROBERT CHARLES KYLE PINKERTON	07/16/2019
VINAY SHET	07/18/2019
SHAOHUI UN	07/15/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	LYFT, INC.
<b>Street Address:</b>	185 BERRY STREET
<b>City:</b>	SAN FRANCISCO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94107
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16457468
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(650)815-2601
<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>	(650) 815-2600
<b>Email:</b>	svpatents@sheppardmullin.com, jraynova@sheppardmullin.com
<b>Correspondent Name:</b>	SHEPPARD MULLIN RICHTER & HAMPTON LLP
<b>Address Line 1:</b>	379 LYTTON AVENUE
<b>Address Line 2:</b>	ATTN: JAMES W. SOONG
<b>Address Line 4:</b>	PALO ALTO, CALIFORNIA 94301
<b>ATTORNEY DOCKET NUMBER:</b>	48JH-280046

PATENT

<b>NAME OF SUBMITTER:</b>	JAMES SOONG
<b>SIGNATURE:</b>	/James Soong/
<b>DATE SIGNED:</b>	08/05/2019
<b>Total Attachments: 3</b> source=48JH_280046_assignment#page1.tif source=48JH_280046_assignment#page2.tif source=48JH_280046_assignment#page3.tif	

**COMBINED ASSIGNMENT AND DECLARATION (37 C.F.R. § 1.63)**

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to Lyft, Inc., a Delaware corporation, having a place of business at 185 Berry Street, San Francisco, California 94107 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the following provisional patent application filed under 35 U.S.C. § 111(b), non-provisional patent application filed under 35 U.S.C. § 111(a), international patent application filed according to the Patent Cooperation Treaty (PCT), or U.S. national-phase patent application filed under 35 U.S.C. § 371 ("APPLICATION"):

Application No. 16/457,468, entitled "APPROACHES FOR  
ENCODING ENVIRONMENTAL INFORMATION" filed on 28 June  
2019.

2. The entire worldwide right, title, and interest in and to: (a) the APPLICATION; (b) all patent applications claiming priority from the APPLICATION; (c) all provisional, utility, divisional, continuation, substitute, renewal, reissue, and other patent applications related thereto which have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) which may be granted on the patent applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATION and in any underlying provisional or foreign patent application, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Title: APPROACHES FOR ENCODING ENVIRONMENTAL INFORMATION  
Date Filed: 28 June 2019  
Application No.: 16/457,468

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This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

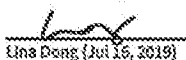
**DECLARATION (37 C.F.R. § 1.63) FOR UTILITY OR DESIGN APPLICATION  
USING AN APPLICATION DATA SHEET (37 C.F.R. § 1.76)**

By signing below, INVENTOR further attests to the following:

- The APPLICATION was made or authorized to be made by INVENTOR.
- INVENTOR believes that INVENTOR is the original inventor or an original joint inventor of a claimed invention in the APPLICATION.
- INVENTOR acknowledges the duty to disclose to the United States Patent and Trademark Office all information known to INVENTOR to be material to patentability as defined in 37 CFR § 1.56, which for a continuation-in-part includes information known to INVENTOR to be material to patentability as defined in 37 CFR § 1.56 that became available between the filing date of the prior patent application and the National or PCT filing date of the continuation-in-part application.

INVENTOR hereby acknowledges that any willful false statement made in this Declaration is punishable under 18 U.S.C. § 1001 by fine, imprisonment of not more than five years, or both.

Name and Signature

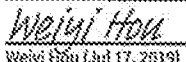
  
Lina Dong (Jul 16, 2019)

Lina Dong

Date of Signature

Jul 16, 2019

Name and Signature

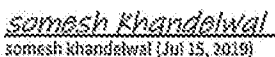
  
Weiyei Hou (Jul 17, 2019)

Weiyei Hou

Date of Signature

Jul 17, 2019

Name and Signature

  
Somesh Khandelwal (Jul 15, 2019)

Somesh Khandelwal

Date of Signature

Jul 15, 2019

Name and Signature

  
Ivan Kirigin (Jul 16, 2019)

Ivan Kirigin


Date of Signature

Jul 16, 2019

Title: APPROACHES FOR ENCODING ENVIRONMENTAL INFORMATION  
Date Filed: 28 June 2019  
Application No.: 16/457,468

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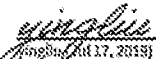
Name and Signature

  
Shaojing Li (Jul 15, 2019)  
Shaojing Li

Date of Signature

Jul 15, 2019


Name and Signature

  
Ying Liu (Jul 17, 2019)  
Ying Liu

Date of Signature

Jul 17, 2019


Name and Signature

  
dlu@lyft.com dlu@lyft.com (Aug 1, 2019)  
David Tse-Zhou Lu

Date of Signature

Aug 1, 2019


Name and Signature

  
Robert Pinkerton (Jul 16, 2019)  
Robert Charles Kyle Pinkerton

Date of Signature

Jul 16, 2019

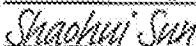
Name and Signature

  
Vinay D Shet (Jul 18, 2019)  
Vinay Shet

Date of Signature

Jul 18, 2019

Name and Signature

  
Shaohui Sun (Jul 15, 2019)  
Shaohui Sun

Date of Signature

Jul 15, 2019