

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT6025151

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	DIDI RESEARCH AMERICA, LLC	03/18/2020
RECEIVING PARTY DATA		
Name:	VOYAGER (HK) CO., LTD.	
Street Address:	SUITE 3101, EVERBRIGHT CENTRE, 108 GLOUCESTER ROAD	
City:	WANCHAI	
State/Country:	HONG KONG	
PROPERTY NUMBERS Total: 37		
Property Type	Number	
Application Number:	62786290	
Application Number:	62786262	
Application Number:	62786278	
Application Number:	16236123	
PCT Number:	US2018068043	
Application Number:	16236182	
PCT Number:	US2018068044	
Application Number:	16236146	
PCT Number:	US2018068038	
Application Number:	16236119	
PCT Number:	US2018068031	
Application Number:	62786267	
Application Number:	62786261	
PCT Number:	US2018068035	
Application Number:	16236109	
PCT Number:	US2018068030	
Application Number:	16236077	
PCT Number:	US2018068034	
Application Number:	16236150	
PCT Number:	US2018068041	
Application Number:	16236092	

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Property Type	Number
PCT Number:	US2018068037
Application Number:	16236084
PCT Number:	US2018067531
Application Number:	16232402
Application Number:	16232812
PCT Number:	US2018067556
PCT Number:	US2018067555
Application Number:	16232693
PCT Number:	US2018067547
Application Number:	16232472
Application Number:	16727642
PCT Number:	US2019068596
Application Number:	16727621
PCT Number:	US2019068606
Application Number:	16727665
PCT Number:	US2019068599

CORRESPONDENCE DATA

Fax Number: (949)760-9502

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.

Phone: 9497600404

Email: efilings@knobbe.com

Correspondent Name: KNOBBE, MARTENS, OLSON & BEAR, LLP

Address Line 1: 2040 MAIN STREET

Address Line 2: 14TH FLOOR

Address Line 4: IRVINE, CALIFORNIA 92614

NAME OF SUBMITTER:	VIKAS BHARGAVA
SIGNATURE:	/Vikas Bhargava/
DATE SIGNED:	03/20/2020

Total Attachments: 4
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Exhibit A

CONFIRMATORY ASSIGNMENT AND GRANT-BACK LICENSE

WHEREAS, Didi Research America, LLC ("*Didi Research*") was the sole and exclusive owner of the patents and patent applications listed in Schedule A attached hereto (collectively referred to as "*Patents*");

WHEREAS, Voyager (HK) Co., Ltd. ("*Voyager HK*") has acquired from Didi Research the entire right, title, and interest in and to the Patents ("*Assigned Patent Rights*");

WHEREAS, Voyager HK has granted Didi Research and its Affiliates a license under the Assigned Patent Rights to use or otherwise exploit the Patents; and

WHEREAS, Didi Research and Voyager HK desire to confirm that the entire right, title, and interest in and to the Patents have been assigned to Voyager HK and that immediately upon the assignment, Voyager HK has granted Didi Research and its Affiliates a license under the Assigned Patent Rights to use or otherwise exploit the Patents.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Didi Research hereby acknowledges that Didi Research has sold, assigned, transferred and conveyed to Voyager HK all right, title, and interest in and to the Patents, including all reissues, reexaminations, extensions, continuations, continuation-in-part, continuing prosecution applications, provisionals and divisions of such Patents, and any patents or patent applications which claim priority to any of the foregoing, and all foreign counterparts of and rights to claim priority from the foregoing, whether or not listed on Schedule A.

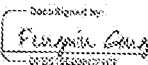
AND Voyager HK hereby acknowledges that Voyager HK has granted to Didi Research and its Affiliates a worldwide, perpetual, irrevocable and sub-licensable license under the Assigned Patent Rights and Seller Improvements thereto to use or otherwise exploit the Patents.

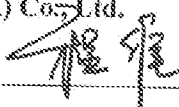
Assignor (Licensee)

Assignee (Licensor)

Didi Research America, LLC

Voyager (HK) Co., Ltd.

By: 

By: 

Name: Fengmin Gong

Name: CHENG Wei

Title: Vice President

Title: Director

Date: 3/18/2020

Date: 03.18.2020

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REEL: 052181 FRAME: 0609

Schedule A

#	Patent Name	Patent No.	Applicant	Origin Office	Type of Patent	Filing Date
1	DISTRIBUTED SYSTEM TASK MANAGEMENT USING A SIMULATED CLOCK	62/786,290	Didi Research	US	US-Provisional	2018/12/28
2	DISTRIBUTED SYSTEM EXECUTION USING A SERIAL TIMELINE	62/786,262	Didi Research	US	US-Provisional	2018/12/28
3	ARCHITECTURE FOR SIMULATION OF DISTRIBUTED SYSTEMS	62/786,278	Didi Research	US	US-Provisional	2018/12/28
4	READING MESSAGES IN A SHARED MEMORY ARCHITECTURE FOR A VEHICLE	16/236,123	Didi Research	US	US-Non-Provisional	2018/12/28
5	READING MESSAGES IN A SHARED MEMORY ARCHITECTURE FOR A VEHICLE	PCT/US2018/068043	Didi Research	US	PCT	2018/12/28
6	WRITING MESSAGES IN A SHARED MEMORY ARCHITECTURE FOR A VEHICLE	16/236,182	Didi Research	US	US-Non-Provisional	2018/12/28
7	WRITING MESSAGES IN A SHARED MEMORY ARCHITECTURE FOR A VEHICLE	PCT/US2018/068044	Didi Research	US	PCT	2018/12/28
8	MESSAGE BUFFER FOR COMMUNICATING INFORMATION BETWEEN VEHICLE COMPONENTS	16/236,146	Didi Research	US	US-Non-Provisional	2018/12/28
9	MESSAGE BUFFER FOR COMMUNICATING INFORMATION BETWEEN VEHICLE COMPONENTS	PCT/US2018/068038	Didi Research	US	PCT	2018/12/28
10	SHARED MEMORY ARCHITECTURE FOR A VEHICLE	16/236,119	Didi Research	US	US-Non-Provisional	2018/12/28
11	SHARED MEMORY ARCHITECTURE FOR A VEHICLE	PCT/US2018/068031	Didi Research	US	PCT	2018/12/28
12	SYSTEM AND METHOD FOR REMOTE INTERVENTION OF VEHICLES	62/786,267	Didi Research	US	US-Provisional	2018/12/28
13	SYSTEM AND METHOD FOR UPDATING VEHICLE OPERATION BASED ON REMOTE INTERVENTION	62/786,261	Didi Research	US	US-Provisional	2018/12/28

#	Patent Name	Patent No.	Applicant	Origin Office	Type of Patent	Filing Date
14	VEHICLE-BASED VIRTUAL STOP AND YIELD LINE DETECTION	PCT/US2018/068035	Didi Research	US	PCT	2018/12/28
15	VEHICLE-BASED VIRTUAL STOP AND YIELD LINE DETECTION	16/236,109	Didi Research	US	US-Non-Provisional	2018/12/28
16	VEHICLE-PROVIDED VIRTUAL STOP AND YIELD LINE CLUSTERING	PCT/US2018/068030	Didi Research	US	PCT	2018/12/28
17	VEHICLE-PROVIDED VIRTUAL STOP AND YIELD LINE CLUSTERING	16/236,077	Didi Research	US	US-Non-Provisional	2018/12/28
18	MAP EDITING USING VEHICLE-PROVIDED DATA	PCT/US2018/068034	Didi Research	US	PCT	2018/12/28
19	MAP EDITING USING VEHICLE-PROVIDED DATA	16/236,150	Didi Research	US	US-Non-Provisional	2018/12/28
20	ON-BOARD VEHICLE STOP CAUSE DETERMINATION SYSTEM	PCT/US2018/068041	Didi Research	US	PCT	2018/12/28
21	ON-BOARD VEHICLE STOP CAUSE DETERMINATION SYSTEM	16/236,092	Didi Research	US	US-Non-Provisional	2018/12/28
22	VEHICLE-BASED ROAD OBSTACLE IDENTIFICATION SYSTEM	PCT/US2018/068037	Didi Research	US	PCT	2018/12/28
23	VEHICLE-BASED ROAD OBSTACLE IDENTIFICATION SYSTEM	16/236,084	Didi Research	US	US-Non-Provisional	2018/12/28
24	SYSTEMS AND METHODS FOR SAFE ROUTE PLANNING FOR A VEHICLE	PCT/US2018/067531	Didi Research	US	PCT	2018/12/26
25	SYSTEMS AND METHODS FOR SAFE ROUTE PLANNING FOR A VEHICLE	16/232,402	Didi Research	US	US-Non-Provisional	2018/12/26
26	SYSTEMS AND METHODS FOR LOADING OBJECT GEOMETRY DATA ON A VEHICLE	16/232,812	Didi Research	US	US-Non-Provisional	2018/12/26
27	SYSTEMS AND METHODS FOR LOADING OBJECT GEOMETRY DATA ON A VEHICLE	PCT/US2018/067556	Didi Research	US	PCT	2018/12/26
28	SYSTEMS AND METHODS FOR LOADING AND TRACKING MAPS ON A VEHICLE	PCT/US2018/067555	Didi Research	US	PCT	2018/12/26

#	Patent Name	Patent No.	Applicant	Origin Office	Type of Patent	Filing Date
29	SYSTEMS AND METHODS FOR LOADING AND TRACKING MAPS ON A VEHICLE	16/232,693	Didi Research	US	US-Non-Provisional	2018/12/26
30	SYSTEMS AND METHODS FOR VEHICLE TELEMETRY	PCT/US2018/067547	Didi Research	US	PCT	2018/12/26
31	SYSTEMS AND METHODS FOR VEHICLE TELEMETRY	16/232,472	Didi Research	US	US-Non-Provisional	2018/12/26
32	ARCHITECTURE FOR SIMULATION OF DISTRIBUTED SYSTEMS	16/727,642	Didi Research	US	US-Non-Provisional	2019/12/26
33	ARCHITECTURE FOR SIMULATION OF DISTRIBUTED SYSTEMS	PCT/US2019/068596	Didi Research	US	PCT	2019/12/26
34	DISTRIBUTED SYSTEM EXECUTION USING A SERIAL TIMELINE	16/727,621	Didi Research	US	US-Non-Provisional	2019/12/26
35	DISTRIBUTED SYSTEM EXECUTION USING A SERIAL TIMELINE	PCT/US2019/068606	Didi Research	US	PCT	2019/12/26
36	DISTRIBUTED SYSTEM TASK MANAGEMENT USING A SIMULATED CLOCK	16/727,665	Didi Research	US	US-Non-Provisional	2019/12/26
37	DISTRIBUTED SYSTEM TASK MANAGEMENT USING A SIMULATED CLOCK	PCT/US2019/068599	Didi Research	US	PCT	2019/12/26

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RECORDED: 03/20/2020

REEL: 052181 FRAME: 0612