

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT8040309

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
SEQUENCE:	2

CONVEYING PARTY DATA

Name	Execution Date
BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	09/23/2021

RECEIVING PARTY DATA

Name:	APOLLO INTELLIGENT DRIVING TECHNOLOGY (BEIJING) CO., LTD.
Street Address:	105, 1ST FLOOR, BUILDING 1, NO. 10 SHANGDISHI STREET
Internal Address:	HAIDIAN DISTRICT
City:	BEIJING
State/Country:	CHINA
Postal Code:	100085

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17545697

CORRESPONDENCE DATA

Fax Number: (216)363-9001

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Email: docketing@faysharpe.com

Correspondent Name: LIPPES MATHIAS LLP

Address Line 1: 1228 EUCLID AVE

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Address Line 4: CLEVELAND, OHIO 441151834

ATTORNEY DOCKET NUMBER:	TIPL 200120US02
NAME OF SUBMITTER:	MARK D. KLINKO
SIGNATURE:	/Mark D. Klinko/
DATE SIGNED:	07/05/2023

Total Attachments: 25

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EXHIBIT A



ASSIGNMENT

THIS AGREEMENT, to be effective as of the date of the last signature, is by and between BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD. ("Assignor"), a corporation having a place of business at 2/F Baidu Campus, No. 10, Shangdi 10th Street, Haidian District, Beijing 100085, China and Apollo Intelligent Driving Technology (Beijing) Co., Ltd. ("Assignee"), a corporation having a place of business at 105, 1st floor, building 1, No. 10, shangdishi street, Haidian District, Beijing 100085, China.

W I T N E S S E T H:

WHEREAS, Assignor owns the entire right, title, and interest in the patent(s) and/or patent application(s) listed in Exhibit A attached hereto ("the Patent Rights"); and

WHEREAS, Assignee desires to obtain and Assignor is willing to assign to Assignee, 100% of its right, title, and interest in the Patent Rights;

NOW, THEREFORE, for good and valuable consideration, the sufficiency and receipt of which are hereby acknowledged, the parties hereby agree as follows:

Assignor does hereby sell, assign, transfer, and set over unto Assignee 100% of its right, title, and interest in, to, and under (i) the patent(s) and/or patent application(s) listed in Exhibit A attached hereto, (ii) all patents which may issue from such patents and patent applications including any continuations, divisionals, continuations-in-part, and re-issues thereof, and (iii) the inventions claimed in such patents and patent applications, further including, without limitation, the right to sue for past, present and future infringement of (i), (ii), and (iii), and the right to collect and receive any damages, royalties, or settlement for such past, present and future infringements and any and all causes of action relating to (i), (ii), and (iii).

IN WITNESS WHEREOF, Assignor and Assignee have each caused their duly authorized representative to execute this Assignment.

BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY
CO., LTD. (Assignor)

Apollo Intelligent Driving Technology
(Beijing) Co., Ltd. (Assignee)

EXHIBIT A



Name: Liang, Zhixiang

Title: Legal representative

Signature

Name: LI, Zhenyu

Title: Executed Director

Signature

Date 2021.09.23

Date 2021.09.23

Country	Application No	Application Date	Applicant	Assignee	Percentage of Intellectual Property Assigned	Remark
EP	EP20165210.4	2020/3/24	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20165120.5	2020/3/24	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-105892	2020/6/19	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP19910614.7	2019/12/17	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/708,503	2019/12/10	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	

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JP invention	JP2020-036 469	2020/3/4	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/716, 3 53	2019/12/16	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/130, 2 09	2020/12/22	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2021-000 182	2021/1/4	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20217803 .4	2020/12/30	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/251, 6 65	2019/12/17	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/251, 1 69	2019/12/17	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/251, 1 68	2019/12/17	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP19907509 .4	2019/12/17	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology	100% of the undivided share, interest and title	

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				(Beijing) Co., Ltd.	belonging to the Assignor	
EP	EP19910808 .5	2019/11/11	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP19910218 .7	2019/12/17	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP19910053 .8	2019/12/17	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/118,5 90	2020/12/10	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP19909985 .4	2019/12/17	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/251,6 67	2019/12/17	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP19910878 .8	2019/10/23	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP19910877 .0	2019/10/22	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	

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EP	EP19910182 .5	2019/10/23	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/116,6 04	2020/12/9	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/116,9 73	2020/12/9	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/118,3 09	2020/12/10	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/117,9 84	2020/12/10	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP19910023 .1	2019/11/11	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/125,2 93	2020/12/17	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/124,5 37	2020/12/17	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/125,2 07	2020/12/17	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology	100% of the undivided share, interest and title	

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				(Beijing) Co., Ltd.	belonging to the Assignor	
US	US17/124,9 77	2020/12/17	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-200 211	2020/12/2	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20215435 .7	2020/12/18	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/123,6 51	2020/12/16	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-159 517	2020/9/24	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-160 121	2020/9/24	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/018,1 53	2020/9/11	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20196108 .3	2020/9/15	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	

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EP	EP20197040 .7	2020/9/18	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20200412 .3	2020/10/6	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-173 434	2020/10/14	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/017, 5 83	2020/9/10	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/060, 3 23	2020/10/1	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20199148 .6	2020/9/30	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20198845 .8	2020/9/29	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20199213 .8	2020/9/30	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/024, 5 05	2020/9/17	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology	100% of the undivided share, interest and title	

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				(Beijing) Co., Ltd.	belonging to the Assignor	
EP	EP19897571 .6	2019/11/7	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/030, 9 19	2020/9/24	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20200948 .6	2020/10/9	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20177981 .6	2020/6/3	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/896, 2 94	2020/6/9	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/915, 5 41	2020/6/29	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-108 726	2020/6/24	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-120 121	2020/7/13	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	

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US	US17/004, 301	2020/8/27	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/915, 546	2020/6/29	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-111183	2020/6/29	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	Granted Patent No. :691440 4 Registrati on date: 2021-07-15
US	US16/895, 299	2020/6/8	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/020, 874	2020/9/15	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-034868	2020/3/2	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/912, 352	2020/6/25	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20165601.4	2020/3/25	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	

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US	US16/914, 1 21	2020/6/26	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-112 520	2020/6/30	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-111 562	2020/6/29	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/917, 4 03	2020/6/30	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/917, 1 47	2020/6/30	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20165260 .9	2020/3/24	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20165282 .3	2020/3/24	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-035 750	2020/3/3	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	Granted Patent No. :689499 2 Registrati on date: 2021-06-08

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JP invention	JP2020-109 639	2020/6/25	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-109 444	2020/6/25	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-036 468	2020/3/4	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/917, 1 91	2020/6/30	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-034 870	2020/3/2	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-048 113	2020/3/18	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/917, 3 83	2020/6/30	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20165180 .9	2020/3/24	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20164230 .3	2020/3/19	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology	100% of the undivided share, interest and title	

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1821150T07203

				(Beijing) Co., Ltd.	belonging to the Assignor	
EP	EP20164782 . 3	2020/3/23	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/807, 9 36	2020/3/3	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/914, 0 82	2020/6/26	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/912, 3 60	2020/6/25	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/911, 5 16	2020/6/25	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20165534 . 7	2020/3/25	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20162156 . 2	2020/3/10	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/943, 2 57	2020/7/30	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	

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EP	EP20167301 .9	2020/3/31	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/814, 4 52	2020/3/10	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/806, 4 45	2020/3/2	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/806, 3 31	2020/3/2	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/806, 4 42	2020/3/2	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP19214803 .9	2019/12/10	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/708, 2 41	2019/12/9	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-041 773	2020/3/11	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20162590 .2	2020/3/12	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology	100% of the undivided share, interest and title	

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				(Beijing) Co., Ltd.	Belonging to the Assignor	
US	US16/811, 0 07	2020/3/6	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/653, 1 75	2019/10/15	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/726, 8 21	2019/12/24	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	Granted
US	US16/726, 8 98	2019/12/25	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/726, 9 00	2019/12/25	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/710, 4 28	2019/12/11	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/718, 0 33	2019/12/17	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/716, 3 29	2019/12/16	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	

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US	US16/718, 016	2019/12/17	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/716, 311	2019/12/16	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/716, 365	2019/12/16	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/718, 040	2019/12/17	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/711, 246	2019/12/11	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/704, 043	2019/12/5	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/709, 765	2019/12/10	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/703, 999	2019/12/5	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/708, 560	2019/12/10	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology	100% of the undivided share, interest and title	

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				(Beijing) Co., Ltd.	belonging to the Assignor	
US	US16/708, 5 27	2019/12/10	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/704, 0 05	2019/12/5	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/653, 0 50	2019/10/15	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/653, 7 03	2019/10/15	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/708, 5 14	2019/12/10	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/149, 0 14	2018/10/1	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	Granted
US	US16/265, 5 66	2019/2/1	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	Granted
US	US16/136, 2 03	2018/9/19	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	

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US	US16/136, 1 95	2018/9/19	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/210, 8 33	2018/12/5	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2018-170 712	2018/9/12	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	Granted Patent No. :661446 4 Registrati on date: 2019-11-15
US	US16/116, 5 36	2018/8/29	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	Granted
US	US16/039, 1 51	2018/7/18	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	Granted
US	US16/039, 1 44	2018/7/18	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	Granted
JP invention	JP2017-106 563	2017/5/30	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	Granted Patent No. :658805 3 Registrati on date: 2019-09-20
JP invention	JP2017-530 149	2017/1/3	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	Granted Patent No. :657800 4 Registrati on date: 2019-08-30

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US	US15/410,188	2017/1/19	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	Granted
US	US15/879,068	2018/1/24	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	Granted
US	US16/959,276	2019/10/22	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP201961562	2020/9/15	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/017,508	2020/9/10	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-154211	2020/9/15	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-570011	2019/12/17	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-569997	2019/12/17	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-570040	2019/12/17	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology	100% of the undivided share, interest and title	

PATENT
RFFI : 058241 FRAME: 0275
PATENT
REEL: 064205 FRAME: 0969

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				(Beijing) Co., Ltd.	belonging to the Assignor	
JP invention	JP2020-570 048	2019/12/23	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-568 709	2019/11/11	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-568 681	2019/10/23	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-568 754	2019/10/23	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-568 735	2019/11/11	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-568 740	2019/10/22	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/958,6 50	2019/11/7	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2021-518 846	2019/12/18	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	

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JP invention	JP2021-518 845	2019/12/17	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/137, 6 98	2020/12/30	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/113, 3 10	2020/12/7	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/118, 4 40	2020/12/10	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-202 076	2020/12/4	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20211564 .8	2020/12/3	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/030, 8 38	2020/9/24	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2021-001 461	2021/1/7	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-212 045	2020/12/22	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology	100% of the undivided share, interest and title	

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				(Beijing) Co., Ltd.	belonging to the Assignor	
JP invention	JP2020-215 097	2020/12/24	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-171 225	2020/10/9	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-117 635	2020/7/8	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-110 079	2020/6/26	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-114 841	2020/7/2	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2020-117 657	2020/7/8	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
JP invention	JP2019-234 822	2019/12/25	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/128,0 51	2020/12/19	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	

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US	US17/119,662	2020/12/11	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor
US	US17/247,968	2021/1/4	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor
US	US17/082,761	2020/10/28	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor
US	US17/076,324	2020/10/21	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor
US	US17/031,410	2020/9/24	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor
US	US17/032,090	2020/9/25	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor
US	US17/035,196	2020/9/28	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor
US	US16/921,008	2020/7/6	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor
US	US17/078,747	2020/10/23	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology	100% of the undivided share, interest and title

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				(Beijing) Co., Ltd.	belonging to the Assignor	
US	US17/038, 2 31	2020/9/30	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/077, 4 19	2020/10/22	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US17/078, 7 24	2020/10/23	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/918, 4 96	2020/7/1	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/918, 9 76	2020/7/1	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/915, 5 52	2020/6/29	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/921, 0 24	2020/7/6	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/722, 2 31	2019/12/20	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	

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EP	EP20216965 .2	2020/12/23	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP21150227 .3	2021/1/5	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20212486 .3	2020/12/8	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20215271 .6	2020/12/18	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20215968 .7	2020/12/21	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20214915 .9	2020/12/17	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20201292 .8	2020/10/12	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20165871 .3	2020/3/26	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20165880 .4	2020/3/26	BEIJING BAIDU NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology	100% of the undivided share, interest and title	

EXHIBIT A



				(Beijing) Co., Ltd.	belonging to the Assignor	
EP	EP20166596 .5	2020/3/30	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP20166306 .9	2020/3/27	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP19216759 .1	2019/12/17	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP16917555 .1	2016/12/19	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
EP	EP17854349 .2	2017/2/21	BEIJING Baidu NETCOM SCIENCE AND TECHNOLOGY CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/136, 209	2018/9/19	BAIDU ONLINE NETWORK TECHNOLOGY (BEIJING) CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	
US	US16/136, 190	2018/9/19	BAIDU ONLINE NETWORK TECHNOLOGY (BEIJING) CO., LTD.	Apollo Intelligent Driving Technology (Beijing) Co., Ltd.	100% of the undivided share, interest and title belonging to the Assignor	Granted



RECORDED: 10/13/2021

PATENT
REEL: 058241 FRAME: 0282
PATENT

RECORDED: 07/05/2023

REEL: 064205 FRAME: 0976