

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5904385

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHENZHEN BYD AUTO R&D COMPANY LIMITED	01/07/2020
BYD COMPANY LIMITED	01/07/2020

RECEIVING PARTY DATA

Name:	BYD COMPANY LIMITED
Street Address:	NO. 3009, BYD ROAD
City:	PINGSHAN, SHENZHEN, GUANGDONG
State/Country:	CHINA
Postal Code:	518118

PROPERTY NUMBERS Total: 77

Property Type	Number
Application Number:	14845105
Application Number:	14828904
Application Number:	14466937
Application Number:	14466932
Application Number:	14369966
Application Number:	14466920
Application Number:	14380050
Application Number:	14383493
Application Number:	14380056
Application Number:	14380052
Application Number:	14380053
Application Number:	14369923
Application Number:	14466853
Application Number:	14466363
Application Number:	14466906
Application Number:	14466873
Application Number:	14359842
Application Number:	14370041
Application Number:	14370043

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Property Type	Number
Application Number:	14369924
Application Number:	14369946
Application Number:	14369934
Application Number:	14370039
Application Number:	14370038
Application Number:	14370044
Application Number:	14369859
Application Number:	14368581
Application Number:	14368929
Application Number:	14315166
Application Number:	14315137
Application Number:	14365856
Application Number:	14308677
Application Number:	14286917
Application Number:	14286771
Application Number:	14357752
Application Number:	14260465
Application Number:	14260034
Application Number:	14254815
Application Number:	14254799
Application Number:	14242763
Application Number:	14228719
Application Number:	14164896
Application Number:	14166551
Application Number:	14238817
Application Number:	14200516
Application Number:	14186884
Application Number:	14234581
Application Number:	14186936
Application Number:	14234578
Application Number:	14131729
Application Number:	14154450
Application Number:	14137696
Application Number:	14134984
Application Number:	14037865
Application Number:	14039984
Application Number:	14039852
Application Number:	13970919

Property Type	Number
Application Number:	13989217
Application Number:	13989186
Application Number:	13800823
Application Number:	13726985
Application Number:	13701424
Application Number:	13581095
Application Number:	13538016
Application Number:	13569773
Application Number:	13580035
Application Number:	13561354
Application Number:	13575921
Application Number:	13555001
Application Number:	13536725
Application Number:	13530818
Application Number:	13540195
Application Number:	13529507
Application Number:	13533915
Application Number:	14037889
Application Number:	14164872
Application Number:	16274103

CORRESPONDENCE DATA

Fax Number: (203)220-8497

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.

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Correspondent Name: DILWORTH IP LLC

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Address Line 4: TRUMBULL, CONNECTICUT 06611

ATTORNEY DOCKET NUMBER:	422-000
NAME OF SUBMITTER:	JESSICA K. BUTCHKO, PARALEGAL
SIGNATURE:	/Jessica K. Butchko, Paralegal/
DATE SIGNED:	01/10/2020

Total Attachments: 6

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PATENT ASSIGNMENT

WHEREAS, SHENZHEN BYD AUTO R&D COMPANY LIMITED, a Chinese company, with an address of Room 101 of BYD R&D Building, No. 3001 Hengping Road, Jiangling Community, Maluan Street, Pingshan District, Shenzhen, Guangdong, 518118 , P.R.China and **BYD COMPANY LIMITED**, a Chinese company, with an address of No. 3009, Byd Road, Pingshan, Shenzhen, Guangdong, 518118 P.R. China (the “ASSIGNORS”), are the record owners of the patents listed on the attached Exhibit A (the “PATENTS”);


WHEREAS, BYD COMPANY LIMITED, a Chinese company, with an address of No.3009, Byd Road, Pingshan, Shenzhen, Guangdong, 518118, P.R.China, and, together with its successors and assigns (the “ASSIGNEE”), is desirous of acquiring the entire right, title, and interest to the PATENTS;

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS assign, grant, transfer, and confirm the conveyance, assignment and transfer to ASSIGNEE all right, title, and interest in the PATENTS, and the right to sue and collect damages for past infringement thereof, along with any continuations, substitutions, divisions, reissues, modifications, and extensions of the PATENTS.

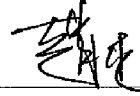
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ASSIGNORS

SHENZHEN BYD AUTO R&D COMPANY LIMITED


By: 
Name: ZHAO, Jie
Title: General Manager
Date: January 7, 2020

BYD COMPANY LIMITED

By: 
Name: ZHAO, Jie
Title: General Manager
Date: January 7, 2020

ASSIGNEE

BYD COMPANY LIMITED

By: 
Name: ZHAO, Jie
Title: General Manager
Date: January 7, 2020

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Exhibit A

	Application Number	Patent Number	Grant Date	Title
1	14/845,105	US9561828B2	2017/2/7	BUS
2	14/828,904	US9499038B2	2016/11/22	INTEGRATED HYBRID POWER ASSEMBLY AND VEHICLE COMPRISING THE SAME
3	14/466,937	US9802388B2	2017/10/31	ALUMINUM ALLOY RESIN COMPOSITE AND METHOD OF PREPARING THE SAME
4	14/466,932	US9956744B2	2018/5/1	SHELL, METHOD OF PREPARING THE SHELL AND ELECTRONIC PRODUCT COMPRISING THE SHELL
5	14/369,966	US9290105B2	2016/3/22	ELECTRIC VEHICLE AND ACTIVE DISCHARGE SYSTEM FOR ELECTRIC VEHICLE
6	14/466,920	US9770884B2	2017/9/26	METAL-RESIN COMPOSITE AND METHOD FOR PRODUCING THE SAME
7	14/380,050	US9387885B2	2016/7/12	CONNECTING DEVICE FOR CONNECTING A VEHICLE SUB-FRAME AND A VEHICLE BODY AND VEHICLE COMPRISING THE SAME
8	14/383,493	US9631683B2	2017/4/25	OPERATION MECHANISM, DOUBLE-ACTION CLUTCH ASSEMBLY AND VEHICLE
9	14/380,056	US9752472B2	2017/9/5	OIL PUMP, ENGINE COVER AND ENGINE COMPRISING THE SAME
10	14/380,052	US9869313B2	2018/1/16	OIL PUMP, ENGINE COVER AND ENGINE COMPRISING THE SAME
11	14/380,053	US9512837B2	2016/12/6	OIL PUMP, ENGINE COVER AND ENGINE COMPRISING THE SAME
12	14/369,923	US9604545B2	2017/3/28	CARRIER MCOMMUNICATION METHOD AND SYSTEM BASED ON CHARGING-DISCHARGING OF ELECTRIC VEHICLE AND CARRIER DEVICE
13	14/466,853	US9862131B2	2018/1/9	METHOD FOR INTEGRALLY MOLDING METAL AND RESIN AND METAL-RESIN COMPOSITE STRUCTURE OBTAINABLE BY THE SAME
14	14/466,363	US9889588B2	2018/2/13	METHOD FOR INTEGRALLY MOLDING METAL AND RESIN AND METAL-RESIN COMPOSITE STRUCTURE OBTAINABLE BY THE SAME
15	14/466,906	US9809895B2	2017/11/7	METHOD FOR PREPARING ALUMINUM ALLOY RESIN COMPOSITE AND ALUMINUM ALLOY-RESIN COMPOSITE OBTAINABLE BY THE SAME
16	14/466,873	US9808974B2	2017/11/7	METHOD FOR PREPARING ALUMINUM ALLOY RESIN COMPOSITE AND ALUMINUM ALLOY-RESIN COMPOSITE OBTAINABLE BY THE SAME

17	14/359,842	US9293910B2	2016/3/22	POWER BATTERY ASSEMBLY AND ELECTRIC VEHICLE COMPRISING THE SAME
18	14/370,041	US9493088B2	2016/11/15	ELECTRIC AUTOMOBILE AND INTEGRATED CONTROL SYSTEM THEREOF
19	14/370,043	US9718374B2	2017/8/1	ELECTRIC VEHICLE AND CHARGING SYSTEM FOR THE ELECTRIC VEHICLE
20	14/369,924	US9272629B2	2016/3/1	POWER SYSTEM SWITCHING BETWEEN CHARGING/DISCHARGING AND DRIVING FUNCTIONS AND ELECTRIC VEHICLE COMPRISING THE SAME
21	14/369,946	US9969290B2	2018/5/15	CHARGING SYSTEM FOR ELECTRIC VEHICLE AND ELECTRIC VEHICLE COMPRISING THE SAME
22	14/369,934	US9260022B2	2016/2/16	ELECTRIC VEHICLE AND POWER SYSTEM AND MOTOR CONTROLLER FOR ELECTRIC VEHICLE
23	14/370,039	US9796287B2	2017/10/24	ELECTRIC VEHICLE AND DISCHARGING DEVICE THEREOF
24	14/370,038	US9718373B2	2017/8/1	ELECTRIC VEHICLE AND DISCHARGING DEVICE THEREOF
25	14/370,044	US10173545B2	2019/1/8	ELECTRIC VEHICLE AND DISCHARGING APPARATUS THEREOF
26	14/369,859	US9303697B2	2016/4/5	DRIVING SYSTEM AND ELECTRIC VEHICLE COMPRISING THE SAME
27	14/368,581	US10224522B2	2019/3/5	SEALING ASSEMBLY, LITHIUM ION BATTERY COMPRISES THE SAME, AND METHOD FOR PREPARING SEALING ASSEMBLY
28	14/368,929	US10062874B2	2018/8/28	SEALING ASSEMBLY, METHOD FOR PREPARING SEALING ASSEMBLY, AND BATTERY COMPRISES THE SEALING ASSEMBLY
29	14/315,166	US9512522B2	2016/12/6	METHOD OF METALIZING SURFACE AND ARTICLE OBTAINABLE
30	14/315,137	US9758682B2	2017/9/12	INK COMPOSITION, METHOD OF METALIZING SURFACE AND ARTICLE OBTAINABLE
31	14/365,856	US9616495B2	2017/4/11	AMORPHOUS ALLOY AND METHOD FOR MANUFACTURING THE SAME
32	14/308,677	US9583956B2	2017/2/28	CHARGING DEVICE, METHOD FOR CONTROLLING CHARGING DEVICE AND METHOD FOR DETECTING PERIPHERAL DEVICE
33	14/286,917	US9216696B2	2015/12/22	DEVICE FOR VEHICLE-MOUNTED EQUIPMENT AND VEHICLE HAVING THE SAME
34	14/286,771	US9322462B2	2016/4/26	DEVICE FOR VEHICLE-MOUNTED EQUIPMENT AND VEHICLE HAVING THE SAME
35	14/357,752	US9698405B2	2017/7/4	ELECTRIC CONNECTER AND BATTERY COMPRISING THE SAME
36	14/260,465	US9879880B2	2018/1/30	Electric heater, and apparatus, heating and air conditioning system, and vehicle comprising the same
37	14/260,034	US9222986B2	2015/12/29	DISTRIBUTED BATTERY MANAGEMENT SYSTEM AND METHOD OF IDENTIFICATION DISTRIBUTION USING THE SAME

38	14/254,815	US9436189B2	2016/9/6	THERMOREGULATOR
39	14/254,799	US9979001B2	2018/5/22	BATTERY EXPLOSION-PROOF DEVICE AND BATTERY PACK COMPRISING THE SAME
40	14/242,763	US10059852B2	2018/8/28	METAL COMPOUND, METHOD FOR PREPARING THE SAME, SELECTIVE METALLIZATION OF SURFACE OF SUBSTRATE WITH THE METAL COMPOUND
41	14/228,719	US9802489B2	2017/10/31	SYSTEM AND METHOD FOR CONTROLLING VEHICLE ELECTRIC POWER AND VEHICLE COMPRISING THE SYSTEM
42	14/164,896	US10147930B2	2018/12/4	CONSTRUCTION OF ELECTROCHEMICAL STORAGE CELL WITH CONDUCTIVE BLOCK
43	14/166,551	US9564665B2	2017/2/7	ELECTRICITY SUPPLY SYSTEM
44	14/238,817	US9174415B2	2015/11/3	COMPOSITE AND PREPARATION METHOD OF JOINING AMORPHOUS ALLOY MATERIAL TO HETEROGENEOUS MATERIAL
45	14/200,516	US9484755B2	2016/11/1	IN-VEHICLE CHARGING CONTROL DEVICE, VEHICLE CHARGING SYSTEM AND VEHICLE
46	14/186,884	US9310392B2	2016/4/12	WHEEL-SPEED SENSOR MOUNTING DEVICE
47	14/234,581	US9120371B2	2015/9/1	Mounting structure for in-vehicle power battery and vehicle comprising the same
48	14/186,936	US9482797B2	2016/11/1	PIXEL ARRAY, CAMERA USING THE SAME AND COLOR PROCESSING METHOD BASED ON THE PIXEL ARRAY
49	14/234,578	US9242539B2	2016/1/26	MOUNTING STRUCTURE FOR IN-VEHICLE POWER BATTERY AND VEHICLE COMPRISING THE SAME
50	14/131,729	US9459739B2	2016/10/4	INDUCTION UNIT, TOUCH DETECTING ASSEMBLY AND TOUCH SENSITIVE DEVICE
51	14/154,450	US9306201B2	2016/4/5	POWER SUPPLY UNIT FOR ELECTRIC VEHICLE
52	14/137,696	US10333131B2	2019/6/25	COVER ASSEMBLY AND BATTERY COMPRISING THE SAME
53	14/134,984	US10109839B2	2018/10/23	ELECTRODE TERMINAL, COVER ASSEMBLY AND BATTERY
54	14/037,865	US9543553B2	2017/1/10	SEALING MEMBER AND BATTERY COMPRISING SAME
55	14/039,984	US9887647B2	2018/2/6	METHOD FOR CHECKING OUT-OF-STEP OF SYNCHRONOUS MOTOR
56	14/039,852	US9887646B2	2018/2/6	METHOD FOR CHECKING OUT-OF-STEP OF SYNCHRONOUS MOTOR
57	13/970,919	US9293896B2	2016/3/22	ASSEMBLY FOR POWER CONNECTION AND SIGNAL ACQUISITION
58	13/989,217	US9005812B2	2015/4/14	Negative active material, method of preparing negative active material and lithium ion battery comprising the same
59	13/989,186	US9029020B2	2015/5/12	NEGATIVE ACTIVE MATERIAL, METHOD FOR PREPARING THE SAME AND LITHIUM ION BATTERY COMPRISING THE SAME

60	13/800,823	US9018875B2	2015/4/28	METHOD FOR CONTROLLING ROTATION RATE OF ELECTRIC MOTOR
61	13/726,985	US9021908B2	2015/5/5	HYDRAULIC SYSTEM, DRIVING SYSTEM AND ELECTRIC VEHICLE
62	13/701,424	US8962181B2	2015/2/24	BATTERY SPACER, BATTERY PROTECTING DEVICE AND POWER BATTERY COMPRISING THE SAME
63	13/581,095	US9543761B2	2017/1/10	HOME ENERGY CONTROL SYSTEM AND CONTROLLING METHOD THEREOF
64	13/538,016	US10270282B2	2019/4/23	SOLAR CHARGER COMPRISING A CHARGING UNIT FOR CHARGING A POWER BATTERY TO A HIGH VOLTAGE, A PHOTO-SENSITIVE UNIT FOR DETECTING LIGHT INTENSITY, A SWITCH UNIT FOR REGULATING CONNECTION BETWEEN THE CHARGING UNIT AND THE POWER BATTERY, AND A CONTROL UNIT FOR REGULATING THE CHARGING OF THE POWER BATTERY BASED ON A SATURATION LEVEL AND THE LIGHT INTENSITY
65	13/569,773	US9050937B2	2015/6/9	LOGO DEVICE FOR VEHICLE
66	13/580,035	US8807618B2	2014/8/19	CONNECTING DEVICE FOR MULTIFUNCTIONAL BOX AND VEHICLE COMPRISING THE SAME
67	13/561,354	US8976546B2	2015/3/10	CONTROL INTEGRATED CIRCUIT OF A SWITCH POWER SUPPLY AND A SWITCH POWER SUPPLY USING THE SAME
68	13/575,921	US9055684B2	2015/6/9	CONTACT PIECE OF GOLDEN FINGER, GOLDEN FINGER AND CONNECTOR COMPRISING THE GOLDEN FINGER
69	13/555,001	US8939801B2	2015/1/27	CONNECTOR BETWEEN BATTERY MODULES AND BATTERY SYSTEM COMPRISING THE SAME
70	13/536,725	US8720617B2	2014/5/13	ELECTRIC BUS
71	13/530,818	US8878603B2	2014/11/4	METHOD AND DEVICE FOR DETECTING PWM WAVE
72	13/540,195	US8845482B2	2014/9/30	HYBRID POWER DRIVING SYSTEM AND DRIVING METHOD OF THE SAME
73	13/529,507	US8450010B2	2013/5/28	SEALING ASSEMBLY OF BATTERY, METHOD OF FABRICATING THE SAME, AND LITHIUM BATTERY
74	13/533,915	US8802279B2	2014/8/12	BATTERY COVER ASSEMBLY AND BATTERY HAVING THE SAME
75	14/037,889	20140093752	2014/4/3	POWER BATTERY ASSEMBLY
76	14/164,872	US10381632B2	2019/8/13	CONSTRUCTION OF ELECTROCHEMICAL STORAGE CELL WITH CONDUCTIVE BLOCK
77	16/274,103	20190182962	2019/6/13	METHOD FOR SELECTIVELY METALLIZING SURFACE OF CERAMIC SUBSTRATE, CERAMIC PRODUCT AND USE OF CERAMIC PRODUCT