

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5951653

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
SEQUENCE:	1

CONVEYING PARTY DATA

Name	Execution Date
HITACHI AUTOMOTIVE SYSTEMS, LTD.	03/29/2019

RECEIVING PARTY DATA

Name:	HITACHI VEHICLE ENERGY, LTD.
Street Address:	1410, INADA, HITACHINAKA-SHI
City:	IBARAKI-KEN
State/Country:	JAPAN
Postal Code:	3128505

PROPERTY NUMBERS Total: 75

Property Type	Number
Patent Number:	7622894
Patent Number:	8054045
Patent Number:	7514905
Patent Number:	8004239
Patent Number:	8029934
Patent Number:	9065124
Patent Number:	8367243
Patent Number:	7951483
Patent Number:	8076020
Patent Number:	8900753
Patent Number:	8986885
Patent Number:	8753760
Patent Number:	9077043
Patent Number:	8986874
Patent Number:	9425490
Patent Number:	9461296
Patent Number:	8962168
Patent Number:	9252602
Patent Number:	9641011

PATENT

Property Type	Number
Patent Number:	9680320
Patent Number:	9362545
Patent Number:	9472809
Patent Number:	9252453
Patent Number:	9362588
Patent Number:	9685682
Patent Number:	9634302
Patent Number:	9722218
Patent Number:	9515361
Patent Number:	9689926
Patent Number:	9557388
Patent Number:	9912024
Patent Number:	9952288
Patent Number:	9583783
Patent Number:	9812676
Patent Number:	9537325
Patent Number:	10147925
Patent Number:	9741994
Patent Number:	9537128
Patent Number:	9685807
Patent Number:	9812683
Patent Number:	9620762
Patent Number:	9748554
Patent Number:	10135267
Patent Number:	10209317
Patent Number:	9887440
Patent Number:	9876207
Patent Number:	9923186
Patent Number:	10063072
Patent Number:	10096865
Patent Number:	9954216
Patent Number:	10224535
Patent Number:	10388939
Patent Number:	10205333
Patent Number:	10230219
Patent Number:	10305076
Patent Number:	10266063
Patent Number:	10367183

Property Type	Number
Patent Number:	7862933
Patent Number:	8263269
Patent Number:	7517613
Patent Number:	6509114
Patent Number:	8353374
Patent Number:	8583389
Patent Number:	8865338
Patent Number:	8440339
Patent Number:	8798832
Patent Number:	9281549
Patent Number:	8616311
Patent Number:	8947023
Patent Number:	8466708
Patent Number:	9893333
Patent Number:	9627151
Patent Number:	9893342
Patent Number:	7604898
Patent Number:	8097363

CORRESPONDENCE DATA

Fax Number: (703)739-2815

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.

Email: iprecordals@cpaglobal.com

Correspondent Name: CPA GLOBAL LIMITED

Address Line 1: LIBERATION HOUSE

Address Line 2: CASTLE STREET

Address Line 4: ST HELIER, JERSEY JE1 1BL

NAME OF SUBMITTER:	HELEN BIRRELL
SIGNATURE:	IPR/NW/NGBVehicleEnergyCP2019-147/AG75P/
DATE SIGNED:	02/07/2020

Total Attachments: 6

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UNITED STATES OF AMERICA
ASSIGNMENT

WHEREAS, **Hitachi Automotive Systems, Ltd.**, a Corporation organized under the laws of **Japan**, with a place of business at **2520, Takaba, Hitachinaka-shi, Ibaraki-ken 3128503, Japan**, owns the United States Patent(s) (the "Patent(s)") listed on the attached Schedule A; and

WHEREAS, **Hitachi Vehicle Energy, Ltd.**, a Corporation organized under the laws of **Japan**, with a place of business at **1410, Inada, Hitachinaka-shi, Ibaraki-ken 3128505, Japan**, desires to acquire all rights to the Patent(s);

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other valuable consideration, the receipt of which ASSIGNOR acknowledges, ASSIGNOR has sold, assigned, transferred, and set over, and does, by this Assignment, sell, assign, transfer, and set over unto ASSIGNEE, all rights to the Patent(s), including reissues and extensions, to be held and enjoyed by ASSIGNEE, its successors, assigns, and legal representatives, for ASSIGNEE's own use and benefit and for the use and benefit of its successors, assigns, and legal representatives, to the end of the term(s) for which the Patent(s) has/have been granted or may be reissued or extended, as fully and entirely as the Patent(s) would have been held and enjoyed by ASSIGNOR had this assignment and sale not been made; together with all claims for profits and damages by reason of past infringement, with the right to sue for and collect the same for the use and benefit of ASSIGNEE, its successors, assigns, and legal representatives.

This Assignment is deemed to have become effective as from: 29 March 2019

IN WITNESS WHEREOF, ASSIGNOR and ASSIGNEE have caused this Assignment to be executed by its duly authorized officer or representative on the date(s) indicated below.

Hitachi Automotive Systems, Ltd.

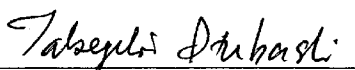
By: 

Name: **Taro Kashima**

Title: **Department Manager, Intellectual Property Dept.**

Date:

Vehicle Energy Japan Inc. (formerly known as Hitachi Vehicle Energy, Ltd.)

By: 

Name: **Takeyuki ITABASHI**

Title: **Deputy General Manager, Design & Development Division**

Date: Jan. 24. 2020

Schedule

Country	Application Number	IP Grant Number
U.S.A.	11347388	7622894
U.S.A.	12577907	8054045
U.S.A.	11638528	7514905
U.S.A.	12400323	8004239
U.S.A.	11782008	8029934
U.S.A.	11937599	9065124
U.S.A.	12357518	8367243
U.S.A.	11609832	7951483
U.S.A.	11610206	8076020
U.S.A.	12542991	8900753
U.S.A.	13028243	8986885
U.S.A.	13029407	8753760
U.S.A.	13186617	9077043
U.S.A.	13028427	8986874
U.S.A.	13076556	9425490
U.S.A.	13885927	9461296
U.S.A.	14009454	8962168
U.S.A.	14119388	9252602
U.S.A.	14124977	9641011
U.S.A.	14118067	9680320
U.S.A.	14001104	9362545
U.S.A.	14129369	9472809
U.S.A.	14128983	9252453
U.S.A.	14238900	9362588
U.S.A.	14111074	9685682
U.S.A.	14358924	9634302
U.S.A.	14366958	9722218
U.S.A.	14401706	9515361
U.S.A.	14648400	9689926

Country	Application Number	IP Grant Number
U.S.A.	14403330	9557388
U.S.A.	14435697	9912024
U.S.A.	14765741	9952288
U.S.A.	14422439	9583783
U.S.A.	14422938	9812676
U.S.A.	13970128	9537325
U.S.A.	14419411	10147925
U.S.A.	14420836	9741994
U.S.A.	14652608	9537128
U.S.A.	14655371	9685807
U.S.A.	14758024	9812683
U.S.A.	14765360	9620762
U.S.A.	14782702	9748554
U.S.A.	14900702	10135267
U.S.A.	14892508	10209317
U.S.A.	14895665	9887440
U.S.A.	14899193	9876207
U.S.A.	15026790	9923186
U.S.A.	15032883	10063072
U.S.A.	15037189	10096865
U.S.A.	15038551	9954216
U.S.A.	15038540	10224535
U.S.A.	15300816	10388939
U.S.A.	15321243	10205333
U.S.A.	15314233	10230219
U.S.A.	15501446	10305076
U.S.A.	15555126	10266063
U.S.A.	15574269	10367183
U.S.A.	12019858	7862933
U.S.A.	12849036	8263269
U.S.A.	11020034	7517613
U.S.A.	09525263	6509114

UNITED STATES OF AMERICA
ASSIGNMENT

WHEREAS, **Hitachi Automotive Systems, Ltd.**, a Corporation organized under the laws of **Japan**, with a place of business at **2520, Takaba, Hitachinaka-shi, Ibaraki-ken 3128503, Japan**, co-owns the United States Patent(s) (the "Patent(s)") listed on the attached Schedule A; and

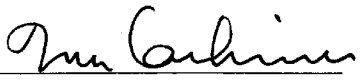
WHEREAS, **Hitachi Vehicle Energy, Ltd.**, a Corporation organized under the laws of **Japan**, with a place of business at **1410, Inada, Hitachinaka-shi, Ibaraki-ken 3128505, Japan**, desires to acquire all rights to the Patent(s);

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other valuable consideration, the receipt of which ASSIGNOR acknowledges, ASSIGNOR has sold, assigned, transferred, and set over, and does, by this Assignment, sell, assign, transfer, and set over unto ASSIGNEE, their share of the rights to the Patent(s), including reissues and extensions, to be held and enjoyed by ASSIGNEE, its successors, assigns, and legal representatives, for ASSIGNEE's own use and benefit and for the use and benefit of its successors, assigns, and legal representatives, to the end of the term(s) for which the Patent(s) has/have been granted or may be reissued or extended, as fully and entirely as the Patent(s) would have been held and enjoyed by ASSIGNOR had this assignment and sale not been made; together with all claims for profits and damages by reason of past infringement, with the right to sue for and collect the same for the use and benefit of ASSIGNEE, its successors, assigns, and legal representatives.

This Assignment is deemed to have become effective as from: 29 March 2019

IN WITNESS WHEREOF, ASSIGNOR and ASSIGNEE have caused this Assignment to be executed by its duly authorized officer or representative on the date(s) indicated below.

Hitachi Automotive Systems, Ltd.

By: 
Name: **Taro Kashima**
Title: **Department Manager, Intellectual Property Dept.**
Date: Jun. 27. 2020

Vehicle Energy Japan Inc. (formerly known as Hitachi Vehicle Energy, Ltd.)

By: 
Name: **Takeyuki ITABASHI**
Title: **Deputy General Manager, Design & Development Division**
Date: Jan. 24. 2020

Schedule

Country	Application Number	IP Grant Number
U.S.A.	12613941	8353374
U.S.A.	12686095	8583389
U.S.A.	12709197	8865338
U.S.A.	12417131	8440339
U.S.A.	13201992	8798832
U.S.A.	13394865	9281549
U.S.A.	12892594	8616311
U.S.A.	13501817	8947023
U.S.A.	12750279	8466708
U.S.A.	13859795	9893333
U.S.A.	14776206	9627151
U.S.A.	14909751	9893342
U.S.A.	11797801	7604898
U.S.A.	13023087	8097363