### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5955279

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
QINGMIN XU	01/09/2020
CHRISTOPHER J. BROOKS	01/09/2020
RYAN MCKENNEY	11/14/2019
NAM HAWN CHOU	11/11/2019
KAORU OMICHI	01/10/2020

#### RECEIVING PARTY DATA

Name:	HONDA MOTOR CO., LTD.
Street Address:	1-1, MINAMI-AOYAMA 2-CHOME, MINATO-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	107-8556

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16445022

#### **CORRESPONDENCE DATA**

Fax Number: (202)857-6395

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**Correspondent Name: ARENT FOX LLP** 1717 K STREET, NW Address Line 1:

Address Line 4: WASHINGTON, D.C. 20006

ATTORNEY DOCKET NUMBER:	037110.01442
NAME OF SUBMITTER:	ZIRIATOU AMADOU
SIGNATURE:	/Ziriatou Amadou/
DATE SIGNED:	02/10/2020

**Total Attachments: 3** 

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PATENT REEL: 051771 FRAME: 0960

Docket No.	037110.01442
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### WORLDWIDE ASSIGNMENT

NOW THEREFORE, be it known that for and in good and valuable consideration, the receipt of which is hereby acknowledged by the undersigned inventor(s) (hereinafter ASSIGNOR) from

[Insert ASSIGNEE's			NDA MOTOR CO., LT		
Name(s) and Address(cs)]			mi-Aoyama 2-Chome, Mi Tokyo, Japan 107-8556	inato-ku	
/idatesa(es/j ,					······································
	hereby sells, assign	NEE), the receipt of which is and transfers to ASSIGN ngement, if any, and all rig	EE the entire and exclusive	ve right, title and inter	est, including the right
[Title of Invention]	NANOSTRUCTURAL DESIGNS FOR ELECTRODE MATERIALS OF FLUORIDE ION BATTERIES				UORIDE
[*If the assignment is being filed after the filing of	for which applicati indicated below:	on for Letters Patent of the		ited on even date her	ewith unless otherwise
the application,	filed on	June 18, 2019	Serial No.:	16/445,022	
this section must be completed]	(Arent Fox I	.LP is hereby authorized to insert	the series code, serial number an	id/or filing date, when know	vn)
	and all Letters Patent of the United States and its territorial possessions and in any and all foreign countries to be obtained therefor on said application or any continuation, divisional, continuation-in-part, renewal, substitute, reissue or reexamination thereof, and any other applications claiming priority thereto, including future inventions or improvements, for the full term or terms for which the same may be granted.				
	The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuing, divisional, continuation-in-part, reissue or reexamination applications thereof and any other applications claiming priority thereto, including future inventions or improvements, also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.				
	The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, continuation-in-part, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon, and any other applications claiming priority thereto, including future inventions or improvements, and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.				
	IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).				
[Signature(s) of Assignor(s)]	$\mathcal{C}$	ROZ	Oingn	nin XU	1/9/2020
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			Rvan MC	KENNEY	
	(SIG	GNATURE)		NAME)	(DATE)
			Nam Hay	vn CHOU	
	(SI	GNATURE)		NAME)	(DATE)
	Wan 1	70: TO	V	DMICHI	1/10/200
	(SI	GNATURE)		DMICHI NAME)	(DATE)

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## WORLDWIDE ASSIGNMENT

NOW THEREFORE, be it known that for and in good and valuable consideration, the receipt of which is hereby acknowledged by the undersigned inventor(s) (hereinafter ASSIGNOR) from

[insert	HONDA MOTOR CO., LTD.					
ASSIGNEE's Name(s) and	1-1, Minami-Aoyama 2-Chome, Minato-ku					
Address(es)]			Tokyo, Japan 10	7-8556		
	(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR agrees to and hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest, including the right to sue for past infringement, if any, and all rights pursuant to 35 U.S.C. \$154, to the invention titled					
[Title of Invention]	NANOSTRUCTURAL DESIGNS FOR ELECTRODE MATERIALS OF FLUORIDE ION BATTERIES					
[*If the assignment is being filed after the filing of	for which applicati indicated below:	on for Letters Patent o	of the United States w	as execu	ited on even date	herewith unless otherwise.
the application,	filed on	June 18, 2019	Seria	ıl No.:	16/445,022	
this section must be completed]	(Arent Fox L	LP is hereby authorized to i	insert the series code, serial	number an	nd/or filing date, when	known)
and all Letters Patent of the United States and its territorial possessions and in any and all foreign continuation therefor on said application or any continuation, divisional, continuation-in-part, renewal reissue or reexamination thereof, and any other applications claiming priority thereto, including future is improvements, for the full term of terms for which the same may be granted.					-part, renewal, substitute,	
	The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuing, divisional, continuation-in-part, reissue or reexamination applications thereof and any other applications claiming priority thereto, including future inventions or improvements, also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.					
	The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, continuation-in-part, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon, and any other applications claiming priority thereto, including future inventions or improvements, and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference litigation, or other legal proceeding.					
	IN WITNI	ESS WHEREOF, the u	indersigned inventor(s	) has (ha	ive) affixed his/he	r/their signature(s).
[Signature(s)					nin XU.	
of Assignor(s)]	(SIC	INATURE)		(TYPE	NAME)	(DATE)
			Chri	stopher	J. BROOKS	
	(SIC	MATURE)			NAME)	(DATE)
	Ryan Mi	henney)	R	yan MC	KENNEY	11/14/2019
	(SIC	GNATURE)			NAME)	(DATE)
			Ñ	am Hav	vn CHOU	
	(810	(NATURE)			NAME)	(DATE)
	Kaoru OMICHI					
	(Sic	INATURE)		(TYPE	NAME)	(DATE)

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# WORLDWIDE ASSIGNMENT

NOW THEREFORE, be it known that for and in good and valuable consideration, the receipt of which is hereby acknowledged by the undersigned inventor(s) (hereinafter ASSIGNOR) from

[Insert ASSIGNEE's	HONDA MOTOR CO., LTD.					
Name(s) and -	1-1, Minami-Aoyama 2-Chome, Minato-ku					
Address(es)]	***************************************		Tokyo, Japan 107-85	56		
	hereby sells, assign	INEE), the receipt of which as and transfers to ASSIGN angement, if any, and all right	NEE the entire and exc	lusive right, title and	l ASSIGNOR agrees to and interest, including the right ntion titled	
[Title of Invention]	NANC	OSTRUCTURAL DESIG	INS FOR ELECTRO		FFLUORIDE	
[*If the assignment is being filed after the filing of	for which application	on for Letters Patent of th			e herewith unless otherwise	
the application,	filed on	June 18, 2019	Serial No	o.: <u>16/445,022</u>		
be completed]	(Arent Fox L	LP is hereby authorized to insert	t the series code, serial numb	ber and/or filing date, when	ı known)	
	and all Letters Patent of the United States and its territorial possessions and in any and all foreign countries to be obtained therefor on said application or any continuation, divisional, continuation-in-part, renewal, substitute, reissue or reexamination thereof, and any other applications claiming priority thereto, including future inventions or improvements, for the full term or terms for which the same may be granted.					
	The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuing, divisional, continuation-in-part, reissue or reexamination applications thereof and any other applications claiming priority thereto, including future inventions or improvements, also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.					
	The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, continuation-in-part, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon, and any other applications claiming priority thereto, including future inventions or improvements, and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.					
	IN WITNI	ESS WHEREOF, the unde	ersigned inventor(s) has	s (have) affixed his/he	er/their signature(s).	
[Signature(s) of Assignor(s)]	(2 to 2 to			ingmin XU		
от газавнот(зд	(SiC	GNATURE)	(TY	/PE NAME)	(DATE)	
	/ P1 % P	SATE A PROVINCE AND		her J. BROOKS		
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	to a contraction of the first of the contraction of		Ryan	MCKENNEY		
	(SIC	JNATURE)	(TY	(PE NAME)	(DATE)	
	Samuel Market		Nam	Hawn CHOU	11/41/19	
	(SIC	DNATURE)		PE NAME)	(DATE) /	
			Kao	ru OMICHI		
	(SIC	JNATURE)	(TY	PE NAME)	(DATE)	

PATENT REEL: 051771 FRAME: 0963

**RECORDED: 02/10/2020**