506172764 07/27/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6219502

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
QINGMIN XU	05/20/2020
CHRISTOPHER J. BROOKS	07/21/2020
RYAN K. MCKENNEY	05/19/2020

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:	16444900

CORRESPONDENCE DATA

Fax Number: (202)857-6395

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: 2028576000

Email: patentdocket@arentfox.com,Ziriatou.Amadou@arentfox.com

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

Address Line 4: WASHINGTON, D.C. 20006

ATTORNEY DOCKET NUMBER:	037110.01443
NAME OF SUBMITTER:	ZIRIATOU AMADOU
SIGNATURE:	/Ziriatou Amadou/
DATE SIGNED:	07/27/2020

Total Attachments: 3

source=037110.01443_Assignment_asfiled#page1.tif source=037110.01443_Assignment_asfiled#page2.tif source=037110.01443_Assignment_asfiled#page3.tif

PATENT 506172764 REEL: 053317 FRAME: 0480

Docket No. 037110.01443/H1182084US02

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 Name(s) and Address(es)]	HONDA MOTOR CO., LTD. 1-1 Minami-Aoyama 2-Chome, Minato-ku Tokyo, Japan 107-8556 (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]	TWO PHASE SHELL FORMATION ON METAL NANOSTRUCTURES					
[*If the assignment is being filed after the filing of	for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:					
the application, this section must	filed on June 18, 2019	Serial No.:	16/444,900	******		
be completed]	(Arent Fox LLP is hereby authorized to insert	the series code, serial number and/	or filing date, when know	(aw		
	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 under	signed inventor(s) has (have	e) affixed his/her/th	eir signature(s).		
[Signature(s) of Assignor(s)]	(SIGNATURE)	Qingmin (TYPE N		5/20/2020 (DATE)		
	(Constitution of the Constitution of the Const		•	(wearn)		
	(SIGNATURE)	Christopher J. (TYPE N		(DATE)		
		Ryan K. MC	KENNEY			
	(SIGNATURE)	(TYPE N		(DATE)		

PATENT REEL: 053317 FRAME: 0481 Docket No. 037110.01443/ H1182084US02

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

		HONDA MOTOR CO. LTD				
[Insert ASSIGNEE's	HONDA MOTOR CO., LTD. 1-1 Minami-Aoyama 2-Chome, Minato-ku					
Name(s) and Address(es)]		1 1 1411	Tokyo, Japan 107-8556	mato-ku		
[Title of Invention]	TWO TIMBE BRIEFE TORRANTHOUGH ON METHE WINTON ROCKED					
•	for which application for Letters Patent of the United States was executed on even date herewith unless otherwise					
[*If the assignment is being filed after the filing of	indicated below:	in for Letters 1 atent of t	me Officed States was exce	area on even date he	rewith diffess offici wise	
the application,	filed on	June 18, 2019	Serial No.:	<u>16/444,900</u>		
be completed]	(Arent Fox LLP is hereby authorized to insert the series code, serial number and/or filing date, when known)				own)	
	and all Letters Patent of the United States and its territorial possessions and in any and all foreign count obtained 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 invimprovements, 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)				nin XU		
of Assignor(s)]			(TYPE	NAME)	(DATE)	
	Money	\$600 1 10 mm	Christopher	r J. BROOKS	07/21/2020	
	(SIG	NATURE)		NAME)	(DATE)	
	Ryan K. MCKENNEY					
	(SIG	NATURE)	(TYPE	NAME)	(DATE)	

PATENT REEL: 053317 FRAME: 0482

Docket No. _037110.01443/ H1182084US02

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 Address(es)]	1-1 Minami-Aoyama 2-Chome, Minato-ku Tokyo, Japan 107-8556					
Address(es)]	10ky0, sapan 107-6550					
[Title of	(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 TWO PHASE SHELL FORMATION ON METAL NANOSTRUCTURES					
Invention]						
[*If the assignment is being filed after the filing of the application,	indicated below:	or Letters Patent of the Uni			ewith unless otherwise	
this section must	filed on <u>Ju</u>	ne 18, 2019	Serial No.:	<u>16/444,900</u>		
be completed]	(Arent Fox LLP is	hereby authorized to insert the ser	ries code, serial number an	d/or filing date, when know	rn)	
	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)			Qingm	nin XU		
of Assignor(s)]	(SIGNA	TURE)	(TYPE)	NAME)	(DATE)	
	(SIGNA	TURE)	Christopher (TYPE)	J. BROOKS	(DATE)	
	(SIGIVA	1010)	(IIIL)		(5/111)	
	/Ryan K. McKenney/	TUDES	Ryan K. M		05/19/2020	
	(SIGNA	TUKE)	(TYPE)	NAME)	(DATE)	

PATENT REEL: 053317 FRAME: 0483

RECORDED: 07/27/2020