PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Janet Mary Fisher	02/28/2011
John Benjamin Goodwin	02/24/2011
Peter Christopher Hinde	02/08/2011
Sylvie Cecile Laroze	02/09/2011
Agnes Suganya Raj	03/10/2011
Raj Rao Rajaram	03/01/2011
Emma Ruth Schofield	02/28/2011

RECEIVING PARTY DATA

Name:	Johnson Matthey Public Limited Company		
Street Address:	25 Farringdon Street		
Internal Address:	5th Floor		
City:	London		
State/Country:	UNITED KINGDOM		
Postal Code:	EC4A 4AB		

PROPERTY NUMBERS Total: 1

Prop	perty Type	Number
Application Nu	ımber:	12991741

CORRESPONDENCE DATA

Fax Number: (610)407-0701

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 610-407-0700

Email: Irbennett@ratnerprestia.com

Correspondent Name: Stephen D. Harper Address Line 1: P.O. Box 980

Address Line 4: Valley Forge, PENNSYLVANIA 19482-0980

ATTORNEY DOCKET NUMBER: AA 1853 US PATENT

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NAME OF SUBMITTER:	Stephen D. Harper
Total Attachments: 12	
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PATENT REEL: 026070 FRAME: 0559

ASSIGNI	MENT - Patent Application	Docket Number: AA 1853 US		
Whereas, the Assignor, comprising the following named inventors:				
	1. Janet Mary Fisher	2. John Benjamin Goodwin		
	3. Peter Christopher Hinde	4. Sylvie Cécile Laroze		
ASSIGNOR(s)/ INVENTOR(s)	5. Agnes Suganya Raj	6. Raj Rao Rajaram		
•	7. Emma Ruth Schofield	8.		
	9.	10.		
	11.	12.		
made an inventior	n entitled: EXHAUST SYSTEM FOR LEAN-BU	JRN INTERNAL COMBUSTION ENGINE COMPRISING		
for which an appli (Select one of the fo	cation for Letters Patent of the United States			
is executed concurrently herewith was filed in the U.S. Patent and Trademark Office on 11/09/2010, as U.S. Patent Application Serial No.: 12/991,741				
ASSIGNEE (Full Name and Address) Johnson Matthey Public Limited Company (a British body corporate) 40-42 Hatton Garden London EC1N 8EE United Kingdom				
is desirous of acquiring the entire interest in and to said invention and the Letters Patent to be obtained therefor,				
Now, therefore, in consideration of the payment by Assignee to Assignor of a sum corresponding to One Dollar (\$1.00), and for other good and valuable consideration, the receipt of which is hereby acknowledged, Assignor, intending to be legally bound, hereby sells, assigns and transfers to Assignee, its successors and assigns, the full and exclusive right, title and interest in and to said invention, all applications for Letters Patent for said invention, including all divisions, continuations, and continuations-in-part thereof, all rights to claim priority based thereon, and all Letters Patent, including reissues, to be obtained therefor, including any and all foreign patent rights in this invention corresponding thereto.				
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Assignor agrees it shall be legally bound, upon request of the Assignee or its successors or assigns or a legal representative thereof, to supply all information and evidence of which the Assignor has knowledge or possession, relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention in the United States of America and foreign countries in the name of the Assignee, and to execute all instruments proper to carry out the intent of this instrument.

If the invention requires a biological deposit, Assignor also grants to Assignee such control over any deposit made by Assignor as may be necessary to the validity of the patent rights assigned herein.

Docket Number: AA 1853 US

Assignor authorizes Assignor's attorney to insert at the end hereof, the serial number and filing date of the aforesaid application for United States Letters Patent and/or the Attorney Docket or file designation for this application if not identified above.

If the Assignor includes more than one individual, these obligations shall apply to these individuals both individually and collectively.

In witness whereof, this Assignment is executed on the day indicated below.

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Application for U	Inited States Letters	Patent:		
Serial No.:		12/991,7	4 <u>1</u>	
Filed:		11/09/20	<u>10</u>	•
Attorney Docket	Number:	AA 1853	us	
Total Number of	Assignment Pages	2	* Witness signature recommende	d, mandatory for some countries

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		Typed or Printed Name	Signature		Date
N-	1.	Janet Mary Fisher		en marginar marieria salem et en	
•			* Witness to Assignor #1		
	2.	John Benjamin Goodwin		-	24-2-11
			* Witness to Assignor #2	and the state of t	24/2/h
SIGNATURE	3,	Peter Christopher Hinde		- ,	
			* Witness to Assignor #3	- -	
	4,	Sylvie Cécile Laroze	1	-	
	5.	Agnes Suganya Raj	* Witness to Assignor #4		
	3.	Agiles Sugariya Kaj		- .	
	6.	Raj Rao Rajaram	* Witness to Assignor #5	न्त्रवं सम्बद्धान्त्रवं प्रश्न सर्वत्रका द्वाराज्ञानसम्बद्धान्त्रवं विन्त्रवं विद्या	
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	7.	Emma Ruth Schofield	* Witness to Assignor #6	eren eren eren eren eren eren eren eren	
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	Typed or Printed	Name	Signature	Date
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			* Witness to Assignor #8	
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			* Witness to Assignor #11	
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- -	NANTONIAN TOTAL PROGRAMMENT AND	كالمارات من المارات ال	* Witness to Assignor #12	
Application for U	Jnited States Letters P	atent:		
Serial No.:	· -	2/991,741		
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Attorney Docker	t Number:	AA 1853 U	<u>s</u>	
Total Number o	f Assignment Pages	9	* Witness signature recom	mended, mandatory for some countries

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			* Witness to Assignor #2	in the state of th
SIGNATURE	3.	Peter Christopher Hinde	P.L. Q	02/02/2011
			* Witness to Assignor #3	8/2/11
	4.	Sylvie Cécile Laroze		
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	5.	Agnes Suganya Raj		
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	6.	Raj Rao Rajaram		***************************************
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	7.	Emma Ruth Schofield	E. Schulpill	28/2/11
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	5.	Agnes Suganya Raj	* Witness to Assignor #4	10/03/11
			* Witness to Assignor #5	10 (03/V
	6.	Raj Rao Rajaram		
			* Witness to Assignor #6	The state of the s
	7.	Emma Ruth Schofield		
			* Witness to Assignor #7	ng mad y maniphan atau mini di dankar atah Mana da Ta Asta da Asta

	Typed or Printed	Name	Signature	Date
	8.	فيناهل اطلا معطفات مداديات بإمراء		
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			* Witness to Assignor #11	
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			* Witness to Assignor #12	
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Application for U	Jnited States Letters F	Patent:		
Serial No.:		12/991,74	1	
Filed:		11/09/201		•
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PATENT REEL: 026070 FRAME: 0571