PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE: **NEW ASSIGNMENT** NATURE OF CONVEYANCE: **ASSIGNMENT**

CONVEYING PARTY DATA

Name	Execution Date
TRS Ceramics, Inc. DBA TRS Technologies	02/28/2009

RECEIVING PARTY DATA

IIName.	United States of America as represented by the Administrator of the National Aeronautics and Space Administration
Street Address:	300 E. Street SW
City:	Washington
State/Country:	DISTRICT OF COLUMBIA
Postal Code:	20546

PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	12355782		

CORRESPONDENCE DATA

Fax Number: (757)864-9190

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

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ATTORNEY DOCKET NUMBER: LAR 17390-1

NAME OF SUBMITTER: Linda B. Blackburn

Total Attachments: 2

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REEL: 022336 FRAME: 0011

PATENT 500795689



Assignment to the Government and License to the Small Entity Contractor

Contractor/	'Grantee:	TRS Ceramics, Inc. DBA TRS Tec	hnologies				
Incorporate	ed Under th	ne Laws of:					
Address:	2820 E. C	ollege Avenue, Suite J					
	State Coll	liege, PA 16801					
title, or here made in the	eby elects e performa ment of the	not to retain title, under the provis nce of work under a contract/grai e United States of America (Here	sions of 35 U. nt (Hereinafte	Contractor), having elected not to retain U.S.C. 202 to a SUBJECT INVENTION er a contract) between the Contractor and Government), the SUBJECT INVENTION			
Title of Inve	ention:	Advanced High Performance Horizo	ntal Piezoelect	ctric Hybrid Synthetic Jet Actuator			
Inventors:							
1. Tian-Bin	Tian-Bing		Employer	National Institute of Aerospace Associates			
2. Xiaoning	2. Xiaoning Jiang		Employer	TRS Ceramics, Inc.			
			Employer	NASA Langley Reserch Center			
			Employer	-			
			Employer				
This assign	ment is ap	plicable to INVENTORS (Check a	appropriate).				
[] (1)			(5);				
Contract No)						
NASA Case	NASA Case No. LAR 17390-1			Contractor Case No.			
Application	application Executed on 01/18/2009		Application	n Serial No. 12/355,782			
Contractor i	s a (Check	cone):					
X Sm	nall Busine	ss					
Co	llege or Ur	niversity					
No	nprofit Org	anization					
			_				

Assignment to the Government

WHEREAS, the Government as represented by the Administrator of the National Aeronautics and Space Administration (NASA), is desirous of acquiring an assignment of the SUBJECT INVENTION identified above and disclosed in said application and other rights and benefits herein granted;

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PAGE 1 OF 2 PAGES

Assignment to the Government (continued)

NOW THEREFORE, in consideration of the contract and other benefits attributable to the contractual relationship, the Contractor hereby assigns and transfers to the Government the full and exclusive right in and to said SUBJECT INVENTION within the United States of America, its territories and possession, and the entire right, title, and interest in and to said patent application, and any applications continuing therefrom and such Letters Patent as may issue therefrom.

The Contractor also grants to the Government, an assignment of the foreign rights in and to the said invention including rights of priority under the International Convention of Paris (1883), as amended.

The Contractor hereby covenants that it has the right to grant the foregoing assignments.

The Contractor further agrees to make, execute and/or deliver to the Government, upon request, but at the expense of the Government, any and all data, drawings, notes, reports, information, papers, documents, affidavits, statements, or other items necessary in the prosecution of said application and of any applications continuing therefrom or applications for reissue or reexamination of said Letters Patent, or of any foreign patent application or any application continuing therefrom, and to assist the Government in every way in protecting said invention as may be requested, provided that any expense arising through such assistance will be paid by the Government.

License to the Contractor

FURTHER, the Contractor hereby retains, pursuant to the Federal Acquisition Regulation clause 52.227-11 entitled "Patent Rights - Retention by the Contractor (Short Form)," a revocable, nonexclusive, royalty-free license throughout the world in the SUBJECT INVENTION in each patent application filed in any country on the invention and in any resulting patent in which the Government acquires title. The license extends to the Contractor's domestic subsidiaries and affiliates, if any, within the corporate structure of which the Contractor is a part and includes the right to grant sublicenses of the same scope to the extent the Contractor was legally obligated to do so at the time the contract was awarded. The license is transferable only with the approval of the National Aeronautics and Space Administration except when transferred to the successor of the part of the Contractor's business to which the invention pertains. The Contractor's domestic license may be revoked or modified by the National Aeronautics and Space Administration to the extent necessary to achieve the expeditious practical application of the SUBJECT INVENTION pursuant to an application for an exclusive license submitted in accordance with the Department of Commerce Patent Licensing Regulations. This license will not be revoked in that field of use or the geographical areas in which the Contractor has achieved practical application and continues to make the benefits of the invention reasonably accessible to the public. The license in any foreign country may be revoked or modified at the discretion of the National Aeronautics and Space Administration to the extent the Contractor, its licensees, or its domestic subsidiaries or affiliates have failed to achieve practical application in that foreign country. Before revocation or modification of the license, the National Aeronautics and Space Administration will furnish the Contractor a written notice of its intention to revoke or modify the license, and the Contractor will be allowed 30 days (or such other time as may be authorized by the National Aeronautics and Space Administration for good cause shown by the Contractor) after the notice to show cause why the license should not be revoked or modified. The Contractor has the right to appeal, in accordance with the procedures set forth in the Department of Commerce Patent Licensing Regulations, from any decision concerning the revocation or modification of its license.

	ntractor hereby executes this instrument by it	ts legally authoriz	ed representative on	
Name	waste Maclanturge	Signature	MATTH	
Title	Arasiden t			
	(Corp	orate Office)		
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