

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Barry Jon Male	08/20/2009
Philip L. Hower	08/20/2009
RECEIVING PARTY DATA	
Name:	TEXAS INSTRUMENTS INCORPORATED
Street Address:	PO BOX 655474
Internal Address:	M/S 3999
City:	Dallas
State/Country:	TEXAS
Postal Code:	75265
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12544548
CORRESPONDENCE DATA	
Fax Number:	(972)917-4418
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	972-917-5271
Email:	uspto@ti.com
Correspondent Name:	TEXAS INSTRUMENTS INCORPORATED
Address Line 1:	P O BOX 655474, M/S 3999
Address Line 4:	DALLAS, TEXAS 75265
ATTORNEY DOCKET NUMBER:	TI-65157
NAME OF SUBMITTER:	Warren L. Franz
Total Attachments: 2 source=65157_Executed_Assignment#page1.tif source=65157_Executed_Assignment#page2.tif	

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PATENT
REEL: 023400 FRAME: 0005

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made, the said application having been assigned the application number given below, and

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 7839 Churchill Way, M/S 3999, Dallas, Texas 75251, is desirous of acquiring my entire right, title and interest in and to the said invention, in and to the said application and any Letters Patent that may issue thereon, and any provisional application from which it claims priority;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in and to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, continuations-in-part and extensions thereof, and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as my interest is concerned, to the said TEXAS INSTRUMENTS INCORPORATED, as assignee of my entire right, title and interest.

I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the Paris Convention for the Protection of Industrial Property, and further agree to execute any and all patent applications, assignments, affidavits, declarations and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said TEXAS INSTRUMENTS INCORPORATED, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths and generally do everything requested to aid said TEXAS INSTRUMENTS INCORPORATED, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set my hand and seal effective the date indicated below.

TITLE OF INVENTION	VERTICAL THERMOELECTRIC STRUCTURES	
APPLICATION(S)	US 61/090,312, Filed August 20, 2008 US 12/544,548, Filed August 20, 2009	
INVENTOR SIGNATURE	Barry Jon Male 	20 August 2009
RESIDENCE (CITY AND STATE)	West Granby, CT	
INVENTOR SIGNATURE	Philip L. Hower _____	20 August 2009
RESIDENCE (CITY AND STATE)	Concord, MA	

After recording, return Assignment to:

Texas Instruments Incorporated
PO Box 655474, M/S 3999
Dallas, TX 75265

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INVENTOR SIGNATURE	Philip L. Howe	20 August 2009
RESIDENCE (CITY AND STATE)	Concord, MA	

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Dallas, TX 75265

PATENT

RECORDED: 10/21/2009

REEL: 023400 FRAME: 0007