

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Kenneth R Rhyner</td><td>06/10/2008</td></tr><tr><td>Kevin Lyne</td><td>06/24/2008</td></tr><tr><td>David G Wontor</td><td>06/14/2008</td></tr><tr><td>Peter R Harper</td><td>06/10/2008</td></tr></tbody></table>		Name	Execution Date	Kenneth R Rhyner	06/10/2008	Kevin Lyne	06/24/2008	David G Wontor	06/14/2008	Peter R Harper	06/10/2008		
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RECEIVING PARTY DATA													
<table border="1"><tr><td>Name:</td><td>Texas Instruments Incorporated</td></tr><tr><td>Street Address:</td><td>7839 Churchill Way</td></tr><tr><td>Internal Address:</td><td>MS 3999</td></tr><tr><td>City:</td><td>Dallas</td></tr><tr><td>State/Country:</td><td>TEXAS</td></tr><tr><td>Postal Code:</td><td>75251</td></tr></table>		Name:	Texas Instruments Incorporated	Street Address:	7839 Churchill Way	Internal Address:	MS 3999	City:	Dallas	State/Country:	TEXAS	Postal Code:	75251
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PROPERTY NUMBERS Total: 1													
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CORRESPONDENCE DATA													
Fax Number: (972)917-4418 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone: 972-917-4371													
Email: uspto@ti.com													
Correspondent Name: Texas Instruments Incorporated													
Address Line 1: P O BOX 655474													
Address Line 2: MS 3999													
Address Line 4: Dallas, TEXAS 75265													
ATTORNEY DOCKET NUMBER:	TI-64664												
NAME OF SUBMITTER:	Yingsheng Tung												

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PATENT
REEL: 021171 FRAME: 0282

Total Attachments: 4

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PATENT

REEL: 021171 FRAME: 0283

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 executed on the date set forth below; and

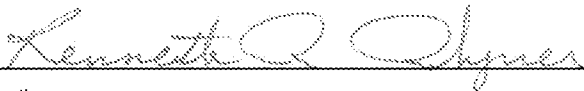
WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 7839 Churchill Way, MS 3999, Dallas, Texas 75251, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said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

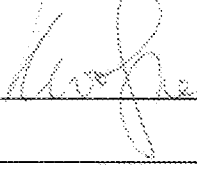
NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents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

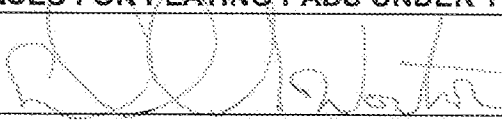
I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention for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

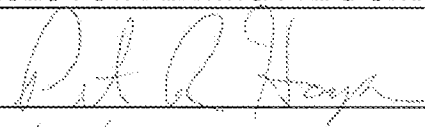
I hereby further agree that I will communicate to said TEXAS INSTRUMENTS INCORPORATED, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible 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 hand and seal this day and year;

TITLE OF INVENTION	BGA PACKAGE WITH TRACES FOR PLATING PADS UNDER THE CHIP
SIGNATURE OF INVENTOR AND NAME	Kenneth R. Rhyner 
DATE	6-10-2008
RESIDENCE (CITY AND STATE)	1895 Creekside Dr. Rockwall, TX 75087
DATE APPLICATION EXECUTED	

TITLE OF INVENTION	BGA PACKAGE WITH TRACES FOR PLATING PADS UNDER THE CHIP
SIGNATURE OF INVENTOR AND NAME	Kevin Lyne 
DATE	6-24-08
RESIDENCE (CITY AND STATE)	90 Elisabeth Way Fairview, TX 75069
DATE APPLICATION EXECUTED	

TITLE OF INVENTION	SGA PACKAGE WITH TRACES FOR PLATING PADS UNDER THE CHIP
SIGNATURE OF INVENTOR AND NAME	David G. Wontor 
DATE	June 14, 2008
RESIDENCE (CITY AND STATE)	5270 San Vicente Terrace Dublin, CA 94568
DATE APPLICATION EXECUTED	June 14, 2008

TITLE OF INVENTION	BGA PACKAGE WITH TRACES FOR PLATING PADS UNDER THE CHIP
SIGNATURE OF INVENTOR AND NAME	Peter R. Harper 
DATE	6/10/2008
RESIDENCE (CITY AND STATE)	1615 Holyoak Lane Lucas, TX 75002
DATE APPLICATION EXECUTED	

After recording, return Assignment to:

Wade James Brady III
Texas Instruments Incorporated
PO Box 655474, M/S 3999
Dallas, TX 75265