

PATENT ASSIGNMENT

Electronic Version v1.1

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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>Pierre BERTRAND</td><td>10/17/2008</td></tr><tr><td>TEXAS INSTRUMENTS FRANCE</td><td>10/17/2008</td></tr><tr><td>Zukang SHEN</td><td>10/17/2008</td></tr><tr><td>Jing JIANG</td><td>10/17/2008</td></tr></tbody></table>	Name	Execution Date	Pierre BERTRAND	10/17/2008	TEXAS INSTRUMENTS FRANCE	10/17/2008	Zukang SHEN	10/17/2008	Jing JIANG	10/17/2008	
Name	Execution Date										
Pierre BERTRAND	10/17/2008										
TEXAS INSTRUMENTS FRANCE	10/17/2008										
Zukang SHEN	10/17/2008										
Jing JIANG	10/17/2008										
RECEIVING PARTY DATA											
Name:	Texas Instruments Incorporated										
Street Address:	P.O. Box 655474										
Internal Address:	MS 3999										
City:	Dallas										
State/Country:	TEXAS										
Postal Code:	75265										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12254064</td></tr></tbody></table>	Property Type	Number	Application Number:	12254064							
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Application Number:	12254064										
CORRESPONDENCE DATA											
Fax Number:	(281)213-2037										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	713-937-8823										
Email:	gerald@lawspatents.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-65550										
NAME OF SUBMITTER:	GERALD E. LAWS										

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PATENT
REEL: 021714 FRAME: 0018

Total Attachments: 3

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PATENT

REEL: 021714 FRAME: 0019

ASSIGNMENT

TI-65550

PARTIES:

1. **TEXAS INSTRUMENTS FRANCE (ASSIGNOR)** a company organised and existing under the laws of France, with its principal place of business at 821 Avenue Jack Kilby, B.P.5, 06271 Villeneuve-Loubet, FRANCE;
2. **TEXAS INSTRUMENTS INCORPORATED (ASSIGNEE)** a company organised and existing under the laws of the State of Delaware, with a place of business at 7839 Churchill Way, Dallas, Texas 75251, United States of America;

RECITALS:

- A. **ASSIGNOR** is jointly entitled with **ASSIGNEE** to the full and exclusive right, title and interest in and to certain inventions in respect of which at least one application for letters patent ("the Application") has been filed as set forth in the Schedule to this Assignment;
- B. **ASSIGNOR** has agreed to assign to the **ASSIGNEE** the full and exclusive right, title and interest in and to the inventions and the Application in respect of all states except FRANCE upon the terms and conditions set forth below;

OPERATIVE PROVISIONS:

In pursuance of an earlier agreement, and in consideration of the sum payable in respect thereof (receipt of which is hereby acknowledged) the **ASSIGNOR** hereby:

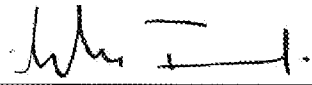
- (i) **ASSIGNS** unto the **ASSIGNEE**, its successors and assigns, the full and exclusive right, title and interest in and to the inventions in all states except FRANCE, and in and to the Application in respect of all states except FRANCE, and to all letters patents that may issue from the Application or be issued in respect of the inventions, and in and to all divisions, reissues, substitutions, continuations, and extensions of the Application or any application for letters patent filed in respect of said inventions; and the right to file applications for, and obtain letters patent, and to claim priority under the terms of the Paris Convention for the Protection of Industrial Property or any other relevant convention;
- (ii) authorises and requests that the national authorities of each state (except FRANCE) issue the Application, and any and all letters patent issued in respect of the inventions, or any and all letters patent resulting from the Application, insofar as Assignor's interest is concerned to the said **ASSIGNEE**, as assignee of the full and exclusive right, title and interest in and to the Application and the inventions. **ASSIGNOR** further agrees to execute any and all applications for letters patent, assignments, affidavits, and any other papers in connection therewith necessary to perfect patent rights, and generally to do everything possible to aid said **ASSIGNEE**, its successors, assigns and nominees to obtain and enforce proper patent protection for said inventions in all countries.

SCHEDULE THE APPLICATION(S)

APPLICATION NUMBER	DATE FILED	TITLE
12/254064	10/20/2008	TRANSMISSION OF SOUNDING REFERENCE SIGNAL AND SCHEDULING REQUEST IN SINGLE CARRIER SYSTEMS (TI-65550)

IN WITNESS WHEREOF this Assignment has been executed as set forth below:

Executed for and on behalf of **TEXAS INSTRUMENTS FRANCE**

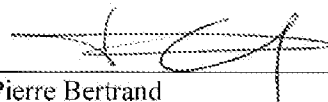
By: 
Name: CHRISTIAN TORDO
Title: Managing Director
Date: October 17th, 2008

ACKNOWLEDGEMENT

I, Pierre Bertrand, co-inventor of certain new and useful improvements in the above entitled invention for which an application for letters patent is about to be made, acknowledge that I was an employee of **TEXAS INSTRUMENTS FRANCE** on the date on which said invention was conceived and reduced to practise, that our invention was made in the course of our normal or specifically assigned duties as employees of **TEXAS INSTRUMENTS FRANCE** and that under French National Law our invention and all rights in it belong to **TEXAS INSTRUMENTS FRANCE**.

I hereby further agree that I will communicate to **TEXAS INSTRUMENTS FRANCE** or to its successors, assigns and legal representatives, any facts known to us respecting said invention, and at the expense of **TEXAS INSTRUMENTS FRANCE**, will 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 FRANCE**, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, the inventor has hereto set his hand and seal;


Pierre Bertrand

Oct 17th 2008
Date

ATTORNEY DOCKET NO.

TI-65550

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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

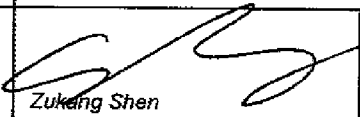

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 7839 Churchill Way, M/S 3999, Dallas, Texas 75251, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said 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 for Patents 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 Paris 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 my hand and seal this day and year;

TITLE OF INVENTION	Transmission of Sounding Reference Signal and Scheduling Request in Single Carrier Systems		
SIGNATURE OF INVENTOR AND NAME	 Zukang Shen	 Jing Jiang	
DATE	Oct. 17, 2008	10/17/2008	
RESIDENCE (City, State)	707 Kindred Lane Richardson, TX 75080 US	1229 Newberry Dr. Allen, TX 75013 US	
DATE Declaration signed	Oct. 17, 2008	10/17/2008	

After recordation, please return Assignment to:

Robert D. Marshall, Jr.
Texas Instruments Incorporated
P.O. Box 655474, MS 3999
Dallas, TX 75265

PATENT

RECORDED: 10/21/2008

REEL: 021714 FRAME: 0022