

FORM PTO-1595 U.S. Department of Commerce
Patent and Trademark Office
**RECORDATION FORM COVER SHEET
PATENTS ONLY**

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies):</p> <p>Akira (NMI) YASUDA Takashi (NMI) KIMURA Texas Instruments Japan, Ltd.</p> <p>Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and Address of receiving party(ies):</p> <p>Name: Texas Instruments Incorporated Internal Address: P. O. Box 655474, M/S 3999 Street Address: 7839 Churchill Way</p> <p>City: Dallas</p> <p>State: Texas Zip: 75265</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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3. Nature of Conveyance:

Assignment Merger

Security Agreement Change of Name

Other _____

Execution Date: **December 5, 2005; November 29, 2005; December 12, 2005**

4. Application number(s) or patent number(s).
If this document is being filed together with a new application, the execution date of the application is

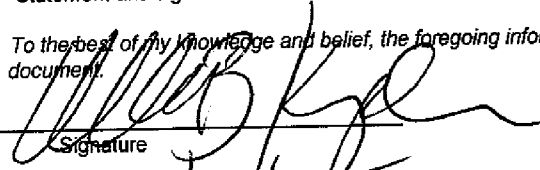
A. Patent Application No.(s)	B. Patent No.(s)
11/238,740	
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: William B. Kempier Internal Address: P. O. Box 655474, M/S 3999 Street Address: 7839 Churchill Way</p> <p>City: Dallas</p> <p>State: Texas Zip: 75265</p>	<p>6. Number of applications and patents involved: <u> 1 </u></p>
7. Amount of fee enclosed or authorized to be charged: \$40.00	
8. Deposit account number (Attach two copies of this form if paying by deposit account): 20-0668	

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.



Signature _____ Name of Person Signing: **William B. Kempier**

Date 12/19/05

Total number of pages including cover sheet, attachments, and document: **3**

CH \$40.00 200668 11238740

TUJ-37823
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ASSIGNMENT

WHEREAS, **TEXAS INSTRUMENTS JAPAN, LTD.** (hereinafter **TIJ**), a Japanese company having its headquarters at 24-1 Nishi-Shinjuku 6-chome, Shinjuku-ku, Tokyo, Japan, under the laws of Japan made application, in its own name, for Letters Patent in Japan in respect of an invention as set forth below;

WHEREAS, the or each below named inventor (hereinafter **INVENTOR**) is the or an inventor of the said invention;

WHEREAS, **TEXAS INSTRUMENTS INCORPORATED**, a corporation organized and existing under the laws of the State of Delaware, having a place of business at 7839 Churchill Way, Mail Station 3999, Dallas, Texas 75251, USA, is desirous of acquiring the entire right, title and interest in and to the said invention outside of Japan, and in and to the U.S. patent application as identified hereinafter and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, by this Assignment, **TIJ** and **INVENTOR** sell and assign to the said **TEXAS INSTRUMENTS INCORPORATED**, its successors and assigns the entire right, title and interest in and to the said invention in the U.S.A. and all other countries outside Japan; in and to the U.S. patent application as identified below and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof, and the right to file applications and obtain patents in its own name in any said other country or group of countries, and to claim priority under the terms of the International Convention for the Protection of Industrial Property or any other relevant convention;

TIJ and **INVENTOR** hereby authorize and request the Commissioner of Patents to issue U.S. patents for said invention, or U.S. patents resulting therefrom, insofar as the interest of **TIJ** and **INVENTOR** is concerned to the said **TEXAS INSTRUMENTS INCORPORATED**, as assignee of the entire right, title and interest.

TIJ and **INVENTOR** further agree to communicate to **TEXAS INSTRUMENTS INCORPORATED** or to its successors, assigns and legal representatives, any facts known to **TIJ** and **INVENTOR** respecting the said invention, and at the expense of **TEXAS INSTRUMENTS INCORPORATED**, sign any and all patent applications, assignments, affidavits and other lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, testify in any legal or quasi-legal proceedings 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 outside of Japan.

Assignment
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SPREAD FREQUENCY SPECTRUM WAVEFORM GENERATING CIRCUIT

Title of Invention

Japanese Serial No.: 2004-283909 Filed: 09/29/2004
U.S. Application Serial No.: 11/238,740 Filed: 09/29/2005

IN WITNESS WHEREOF, this Agreement has been executed as set forth below;

Signed at Tokyo, Japan on December 12, 2005

by **Texas Instruments Japan, Ltd.**

Name *T. Yamasaki*
Tooshiyuki Yamasaki

Title Representative Director and President

Date 12/12/2005

and by the **INVENTOR:**

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Date

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Nov. 29 / 2005
Date