

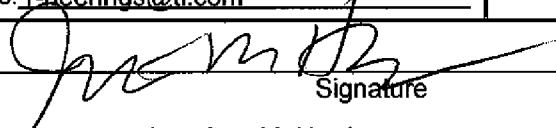
Form FTO-1595 (Rev. 07/05)  
OMB No. 0651-0027 (exp. 6/30/2008)

U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

**RECORDATION FORM COVER SHEET**  
**PATENTS ONLY**

TI-61193 (1962-43100)

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

<b>1. Name of conveying party(ies)</b> 1. Karthik Jayaraman RAGHURAM May 29, 2007 2. Philippe LaFon May 28, 2007  Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>2. Name and address of receiving party(ies)</b> Name: <u>Texas Instruments Incorporated</u> Internal Address: _____  Street Address: <u>P. O. Box 655474, MS 3999</u>  City: <u>Dallas</u> State: <u>Texas</u> Country: <u>US</u> Zip: <u>75265</u>  Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>3. Nature of conveyance/Execution Date(s):</b> Execution Date(s) See dates above to right of parties. <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____		<b>4. Application or patent number(s):</b> <input type="checkbox"/> This document is being filed together with a new application. A. Patent Application No.(s) <u>11/755,513</u> B. Patent No.(s)  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<b>5. Name and address to whom correspondence concerning document should be mailed:</b> Name: <u>Ron Neerings</u> Internal Address: <u>Texas Instruments, Inc.</u>  Street Address: <u>P. O. Box 655474, MS 3999</u>  City: <u>Dallas</u> State: <u>Texas</u> Zip: <u>75265</u> Phone Number: <u>(972) 917-5299</u> Fax Number: <u>(972) 917-4418</u> Email Address: <u>r-neerings@ti.com</u>		<b>6. Total number of applications and patents involved:</b> <u>One</u>  <b>7. Total fee (37 CFR 1.21(h) &amp; 3.41) \$ 40</b> <input type="checkbox"/> Authorized to be charged by credit card <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)	
<b>9. Signature:</b>  Signature <u>Jonathan M. Harris</u> Name of Person Signing		<b>8. Payment Information</b> a. Credit Card Last 4 Numbers _____ Expiration Date _____  b. Deposit Account Number <u>20-0668</u> Authorized User Name <u>Ron Neerings</u>	
		Date <u>June 15, 2007</u> Total number of pages including cover sheet, attachments, and documents: <span style="border: 1px solid black; padding: 2px;">5</span>	

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

CH \$40.00 200668 11755513

### ASSIGNMENT

WHEREAS, the below named inventor(s) (hereinafter INVENTOR) having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is being made, the said application having been executed on the date set forth below, and made the said invention in the course of employment by TEXAS INSTRUMENTS INDIA LIMITED, a company organized according to the laws of India, having an office at Golf View Home, Wind Tunnel Road, Post Box No. 1708, Murgeshpalya, Bangalore 560 017, India, hereinafter (TIIN);

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 our entire right, title interest in and to the said invention outside of India, and in 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, by this Assignment, TIIN 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 in all other countries outside India; 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 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;

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

TIIN and INVENTOR further agree to communicate to TEXAS INSTRUMENTS INCORPORATED or to its successors, assigns and legal representatives, any facts known to them 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 applications, make all lawful oaths, testify in any legal or quasi-legal proceedings and generally everything possible to said TEXAS INSTRUMENTS INCORPORATED, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries outside India.

TIIN-61193  
Assignment

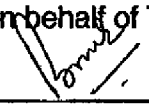
Title of Invention: **TECHNIQUES FOR EFFICIENT DITHERING**

Date Application Executed: \_\_\_\_\_

Inventor(s): **Karthik Jayaraman Raghuram**

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

Executed for and on behalf of Texas Instruments India Limited

By (Signature):  \_\_\_\_\_

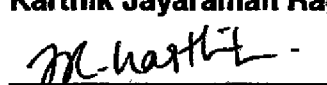
Name: BISWADIP MITRA

Title: MANAGING DIRECTOR

Date: 12 Jun 2007

and by the INVENTOR(S):

Name: **Karthik Jayaraman Raghuram**

Signature:  \_\_\_\_\_

Address: 31-A Thilagar Street, R.S. Puram, Coimbatore, Tamilnadu  
INDIA 641002

Date: 05/29/07 -

**ASSIGNMENT**

TI-61193

**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:

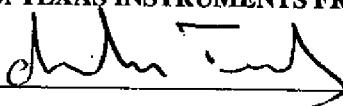
- (i) **ASSIGNS** unto the **ASSIGNEE**, its successors and assigns, the full and exclusive right, title and interest in and to the inventions in all states except FRANCE, and in and to the Application in respect of all states except FRANCE, and to all letters patents that may issue from the Application 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 International 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
EP 07290466.7	April 16, 2007	Fast, 2-Point Dithering For Video And Imaging
US 11/		Techniques For Efficient Dithering

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

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

By: 

Name: CHRISTIAN TORDE

Title: Managing Director

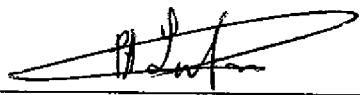
Date: May 28, 2007

**ACKNOWLEDGEMENT**

I, Philippe LaFon, 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 an employee of **TEXAS INSTRUMENTS FRANCE** and that under French National Law our invention and all rights in it belong to **TEXAS INSTRUMENTS FRANCE**.

I/We each hereby further agree that we 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 each inventor has hereto set his hand and seal;



Name: Philippe LaFon

May 28, 2007

Date