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hed original documents or copy thereof.

1. Name and Address of Conveying Party(ies).

Walter M. Duncan
7019 Eudora Drive
Dallas, Dallas County, Texas 75230

Individual Citizenship: United States of America

Additional name(s) of conveying party(ies) attached?
 Yes No

Name and Address of receiving Party(ies):

Name: TEXAS INSTRUMENTS INCORPORATED

Mailing Address: Legal Department
P.O. Box 655474, M/S 3999
Dallas, Texas 75265

Street Address: Legal Department
7839 Churchill Way, M/S 3999
Dallas, Texas 75251

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Additional name(s) & Address(es) attached? Yes No

Execution Date: 10/21/2008

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: 10/21/2008

A. Patent Application No.(s): 12/256,005

B. Patent No.(s):

Additional Numbers Yes No

5. Name and address of party to whom correspondence concerning document should be mailed to:

Name: Dawn Stephens
Internal Address: TEXAS INSTRUMENTS INCORPORATED
Street Address: 7839 Churchill Way, M/S 3999
City: Dallas
State: Texas Zip 75251

6. Total number of application and patents involved: One

7. Total Fee (37C.F.R. 3.41): \$40.00

- Enclosed
- Authorized to be charged to deposit account

8. Deposit Account Number:
No. 20-0668 of Texas Instruments Incorporated
(Attach Duplicate Copy of this page if paying by deposit account)

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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.

Keiko Ichive Reg. No. 45,460
Name of Person Signing

Keiko Ichive
Signature

October 22, 2008
Date

Total number of pages including cover sheet

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DAL01:1028463 1

Attorney Docket No.
TI-66517

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

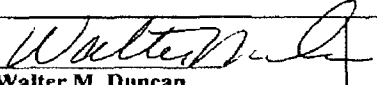
WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, having a place of business at 7839 Churchill Way, MS 3999, Dallas, Texas 75251, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the 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 and 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 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 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	ENCODING OPTICAL SPECTRA USING A DMD ARRAY		
Signature of Inventor and Name	 Walter M. Duncan		
Date	10/21/08		
Residence (City, State & County)	7019 Eudora Drive Dallas, TX 75230 (Dallas, Dallas County, Texas)		
Date Application Executed	10/21/08		

After recording, return Assignment to:

Charles A. Brill, Esq. (Reg. No. 37,786)
TEXAS INSTRUMENTS INCORPORATED
P. O. Box 655474, M/S 3999
Dallas, Texas 75265

DAL01:1028451.1