502033114 08/22/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Hyung Joon Kim	07/12/2012
Minhua Zhou	08/16/2012
Akira Osamoto	08/16/2012
Hideo Tamama	08/20/2012

RECEIVING PARTY DATA

Name:	Texas Instruments Incorporated
Street Address:	12500 TI Boulevard
Internal Address:	MS 3999
City:	Dallas
State/Country:	TEXAS
Postal Code:	75243

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13548100

CORRESPONDENCE DATA

 Fax Number:
 2144791273

 Phone:
 7139378823

Email: ellen@lawspatents.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US

Mail.

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-72592	
NAME OF SUBMITTER:	Ellen Baker Laws

Total Attachments: 2

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PATENT

REEL: 028826 FRAME: 0944

OF \$40.00 13548100

(CITY AND STATE)

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.

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 12500 TI Boulevard - M/S 3999, Dallas, Texas 75243, 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, as well as to U.S. Provisional Application No(s).: 51/506,838, filed July 12, 2011;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign unto 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(s) and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Patent and Trademark Office to issue all patents for said invention, or patents resulting therefrom, 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 corresponding rights to the invention disclosed in said application in all other countries of the world, including the right to claim priority, file applications and obtain patents under the terms of the Paris Convention for the Protection of Industrial Property, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such 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.

I authorize the later insertion of the nonprovisional application number and filing date herein below.

IN WITNESS WHEREOF, I hereunto set hand and seal this day and year;

TITLE	Fast Motion Estimation For Hierarchical Coding Structures		
NONPROVISIONAL APPLICATION NO.	13/548,100	FILING DATE	2012-07-12
SIGNATURE OF INVENTOR	Mynn		
PRINTED NAME OF INVENTOR	Hyung Joon Kim		
DATE	7-12-2012		
RESIDENCE	McKinney, TX		

PATENT REEL: 028826 FRAME: 0945

SIGNATURE OF INVENTOR	19 92 -
PRINTED NAME OF INVENTOR	Minhua Zhou
DATE	8-16-2012
RESIDENCE (CITY AND STATE)	Plano, TX
SIGNATURE OF INVENTOR	xaa qaab
PRINTED NAME OF INVENTOR	Akira Osamoto
DATE	\$ - 16 - 2012
RESIDENCE (CITY AND STATE)	Plano, TX
SIGNATURE OF INVENTOR	At Envers
PRINTED NAME OF INVENTOR	Hideo Tamama
DATE	8-20-2012
RESIDENCE (CITY AND STATE)	The Colony, TX

After recording, return Assignment to:

RECORDED: 08/22/2012

Texas Instruments Incorporated PO Box 655474, M/S 3999 Dallas, TX 75265

> PATENT REEL: 028826 FRAME: 0946