PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Douglas M. Reber	09/25/2013
Mehul D. Shroff	09/25/2013
Edward O. Travis	09/25/2013

RECEIVING PARTY DATA

Name:	FREESCALE SEMICONDUCTOR, INC.
Street Address:	6501 William Cannon Drive
Internal Address:	MD: TX30/OE62
City:	Austin
State/Country:	Texas
Postal Code:	78735

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14039622

CORRESPONDENCE DATA

Fax Number: 5123551119

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 5125822455

Email: docketing@ds-patent.com

Correspondent Name: DAVIDSON SHEEHAN LLP

Address Line 1: 1501 West Avenue

Address Line 2: Suite B

Address Line 4: Austin, TEXAS 78701

ATTORNEY DOCKET NUMBER:	1080-MT12436TK
NAME OF SUBMITTER:	Ryan S. Davidson
Signature:	/Ryan S. Davidson/

502512890 REEL: 031305 FRAME: 0661

11030622

Date:	09/27/2013
Total Attachments: 6 source=MT12436TK_Assignment-executed: source=MT12436TK_Assignment-executed: source=MT12436TK_Assignment-executed: source=MT12436TK_Assignment-executed: source=MT12436TK_Assignment-executed: source=MT12436TK_Assignment-executed:	#page2.tif #page3.tif #page4.tif #page5.tif

PATENT

ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, DOUGLAS M. REBER of Austin, Texas; MEHUL D. SHROFF of Austin, Texas; and EDWARD O. TRAVIS of Austin, Texas, have sold, assigned and transferred, and do hereby sell, assign and transfer, unto FREESCALE SEMICONDUCTOR, INC., a corporation of the State of Delaware, having its principal office in Austin, State of Texas, United States of America, and its successors, assigns, and legal representatives, the entire right, title and interest for the United States of America in and to certain inventions relating to improvements in 3D DEVICE PACKAGING USING THROUGH-SUBSTRATE PILLARS (Docket No. 1080-MT12436TK), described, illustrated and claimed in an application for Letters Patent of the United States of America executed by us on the dates indicated by our signatures below, together with the entire right, title and interest in and to the application, and in and to Letters Patent which may be issued upon the application, and upon any division, extension, continuation or reissue thereof.

We hereby also sell, assign and transfer unto FREESCALE SEMICONDUCTOR, INC., the entire right, title and interest in and to the invention and in and to applications for Letters Patent therefor in all countries foreign to the United States of America, including all rights under any and all international conventions and treaties in respect of the invention and the applications for Letters Patent in foreign countries, and we further authorize FREESCALE SEMICONDUCTOR, INC. to apply for Letters Patent in foreign countries directly in its own name, and to claim priority of the filing date of the application for Letters Patent of the United States of America under the provisions of any and all international conventions and treaties.

We hereby authorize and request the Commissioner of Patents of the United States of America to issue Letters Patent upon the aforesaid application, division, extension, continuation or reissue, to FREESCALE SEMICONDUCTOR, INC., for the sole use and bene fit of FREESCALE SEMICONDUCTOR, INC., its successors, assigns and legal representatives, to the full end of the term for which Letters Patent may be granted, the same as they would have been held and enjoyed by me had this assignment not been made, and we hereby authorize and request the equivalent authorities in foreign countries to issue the patents of their respective countries to FREESCALE SEMICONDUCTOR, INC.

We agree that, when requested, we will, without charge to FREESCALE

SEMICONDUCTOR, INC., but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for the inventions in any and all countries and for vesting title thereto in FREESCALE

SEMICONDUCTOR, INC., its successors, assigns and legal representatives or nominees.

-1-1080-MT12436TK

assignment, grant, mortga	ge, license or other encumbrance.	1
	DATE: SS SSPTEMBELL	<u> </u>
DOUGLAS MARKER		1
STATE OF TEXAS	}	
COUNTY OF TRAVIS	ý ,	1 1 1
that Douglas M. Reber, wi me this day in person and their free and voluntary ac	y Public in and for the County and State aforesaid does hose name is subscribed to the foregoing instrument, ap acknowledged that they signed, sealed and delivered that and deed for the uses and purposes therein set forth.	eared before c instrument as
Given under my hand	and notarial seal this 25 day of	, 2013.
My commission expires:	Notary Public Signature	Peder
MARY HELEN MY COMMISSIO March 31,	N EXPIRES (1
MEHUL D. SHROFF	DATE:	1
TANDON TO TO, 129 BEGINST. T.		*
STATE OF TEXAS)	,
		,
COUNTY OF TRAVIS)	1
that Mehul D. Shroff, who this day in person and ack	y Public in and for the County and State aforesaid does se name is subscribed to the foregoing instrument, apponent nowledged that they signed, sealed and delivered the in at and deed for the uses and purposes therein set forth.	ared before m
Given under my hand	and notarial seal this day of	, 2013.
•		1
My commission expires:		1
	Notary Public Signature	1
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		1
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	1080-MT12436TK	,

We covenant with FREESCALE SEMICONDUCTOR, INC., its successors, assigns and

legal representatives, that the interest and property hereby conveyed is free from all prior

EDWARD O TRAVIS

DATE: Sept 25,201

STATE OF TEXAS

COUNTY OF TRAVIS

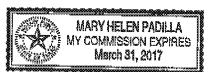
The undersigned Notary Public in and for the County and State aforesaid does that Edward O. Travis, whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed and delivered the instrument as their free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this 25 day of

_, 2013.

My commission expires:

Notary Public Signature



512-996-7044 11:52:56 09-26-2013 5/7

PATENT

ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, DOUGLAS M. REBER of Austin, Texas; MEHUL D. SHROFF of Austin, Texas; and EDWARD O. TRAVIS of Austin, Texas, have sold, assigned and transferred, and do hereby sell, assign and transfer, unto FREESCALE SEMICONDUCTOR, INC., a corporation of the State of Delaware, having its principal office in Austin, State of Texas, United States of America, and its successors, assigns, and legal representatives, the entire right, title and interest for the United States of America in and to certain inventions relating to improvements in 3D DEVICE PACKAGING USING THROUGH-SUBSTRATE PILLARS (Docket No. 1080-MT12436TK), described, illustrated and claimed in an application for Letters Patent of the United States of America executed by us on the dates indicated by our signatures below, together with the entire right, title and interest in and to the application, and in and to Letters Patent which may be issued upon the application, and upon any division, extension, continuation or reissue thereof.

We hereby also sell, assign and transfer unto FREESCALE SEMICONDUCTOR, INC., the entire right, title and interest in and to the invention and in and to applications for Letters Patent therefor in all countries foreign to the United States of America, including all rights under any and all international conventions and treaties in respect of the invention and the applications for Letters Patent in foreign countries, and we further authorize FREESCALE SEMICONDUCTOR, INC. to apply for Letters Patent in foreign countries directly in its own name, and to claim priority of the filing date of the application for Letters Patent of the United States of America under the provisions of any and all international conventions and treaties.

We hereby authorize and request the Commissioner of Patents of the United States of America to issue Letters Patent upon the aforesaid application, division, extension, continuation or reissue, to FREESCALE SEMICONDUCTOR, INC., for the sole use and benefit of FREESCALE SEMICONDUCTOR, INC., its successors, assigns and legal representatives, to the full end of the term for which Letters Patent may be granted, the same as they would have been held and enjoyed by me had this assignment not been made, and we hereby authorize and request the equivalent authorities in foreign countries to issue the patents of their respective countries to FREESCALE SEMICONDUCTOR, INC.

We agree that, when requested, we will, without charge to FREESCALE SEMICONDUCTOR, INC., but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for the inventions in any and all countries and for vesting title thereto in FREESCALE SEMICONDUCTOR, INC., its successors, assigns and legal representatives or nominees.

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We covenant with FREESCALE SEMICONDUCTOR, INC., its successors, assigns and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license or other encumbrance.

	DATE:	
DOUGLAS M. REBER		
STATE OF TEXAS)		
COUNTY OF TRAVIS)		
that Douglas M. Reber, whose name is subscri	the County and State aforesaid does hereby cert ribed to the foregoing instrument, appeared before they signed, sealed and delivered the instrument uses and purposes therein set forth.	ore
Given under my hand and notarial seal this	is day of, 2013.	
My commission expires:	Notary Public Signature	rm·
MEHUL D. SHROFF	DATE: 25 Sep 2013	
STATE OF TEXAS) COUNTY OF TRAVIS)		
that Mehul D. Shroff, whose name is subscrib		e mo
My commission expires:	Wee the Matrocka	
DEE A. MATOCHA My Commission Expires October 31, 2018	Notary Public Signature	

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EDWARD O. TRAVIS	DATE:	THE
STATE OF TEXAS)	
COUNTY OF TRAVIS)	
that Edward O. Travis, who me this day in person and	y Public in and for the County and State aforese name is subscribed to the foregoing insacknowledged that they signed, sealed and at and deed for the uses and purposes therein	strument, appeared before delivered the instrument as
Given under my hand	and notarial seal this day of	, 2013.
My commission expires:	Notary Public S	Honotina

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