

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4469548

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
LEONARDO WILLIAM ESTEVEZ	06/19/2017
ARITON XHAFA	11/18/2016
RAMANUJA VEDANTHAM	11/18/2016
YANJUN SUN	11/11/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TEXAS INSTRUMENTS INCORPORATED
<b>Street Address:</b>	12500 TI BOULEVARD, M/S 3999
<b>City:</b>	DALLAS
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	75243
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15289837
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(214)567-2228
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	214-479-1230
<b>Email:</b>	uspto@ti.com
<b>Correspondent Name:</b>	TEXAS INSTRUMENTS INCORPORATED
<b>Address Line 1:</b>	P O BOX 655474, M/S 3999
<b>Address Line 4:</b>	DALLAS, TEXAS 75265
<b>ATTORNEY DOCKET NUMBER:</b>	TI-69898.1AA
<b>NAME OF SUBMITTER:</b>	RONALD O NEERINGS
<b>SIGNATURE:</b>	/RONALD O. NEERINGS/
<b>DATE SIGNED:</b>	06/20/2017
<b>Total Attachments: 5</b>	
source=TI-69898-1AA-RecordationCoverSheet-Assignments-Estevez-Xhafa-Vedantham-Sun#page1.tif	
source=TI-69898-1AA-RecordationCoverSheet-Assignments-Estevez-Xhafa-Vedantham-Sun#page2.tif	
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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><i>Leonardo William Estevez (06/19/2017)</i> <i>Arlton Khafa (11/18/2016)</i> <i>Ramanuja Vedantham (11/18/2016)</i> <i>Yanjun Sun (11/11/2016)</i></p> <p>Additional name(s) &amp; address(es) Attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and Address of receiving party(ies):</p> <p>Name: <i>Texas Instruments Incorporated</i></p> <p>Address: <i>12500 TI Boulevard, M/S 3999</i></p> <p>City: <i>Dallas</i></p> <p>State: <i>Texas</i> Zip: <i>75243</i></p> <p>Additional name(s) &amp; 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: *November 18, 2016 and June 19, 2017.*

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)

*15/289,837*

Additional numbers attached?  Yes  No Additional numbers attached?  Yes  No

<p>5. Name and address of party to whom the correspondence concerning document should be mailed:</p> <p>Name: <i>Ronald O. Neerings</i></p> <p>Address: <i>Texas Instruments Incorporated</i> <i>P. O. Box 655474, M.S. 3999</i></p> <p>City: <i>Dallas</i></p> <p>State: <i>Texas</i></p> <p>Zip: <i>75265</i></p>	<p>6. Number of applications and patents involved: <u><i>1</i></u></p>
<p>7. Amount of fee enclosed or authorized to be charged: <u><i>\$40.00</i></u></p>	
<p>8. Texas Instruments Incorporated, Account Number : <u><i>20-0668</i></u></p>	

**DO NOT USE THIS SPACE**

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.*

*Ronald O. Neerings* *34,227* *06/20/2017*  
*Ronald O. Neerings* Registration Number Date

Total number of pages including cover sheet, attachments and document *5*.

**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) \_\_\_\_\_ filed \_\_\_\_\_.


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.

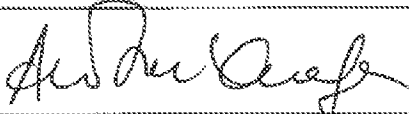
I authorize the later insertion of the nonprovisional application number and filing date hereinbelow.

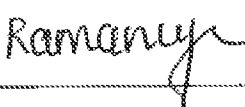
IN WITNESS WHEREOF, I hereunto set hand and seal this day and year,

TITLE	POWER EFFICIENT TUNNELED DIRECT LINK SETUP APPARATUS, SYSTEMS AND METHODS		
NONPROVISIONAL APPLICATION NO.	15/289,837	FILING DATE	October 10, 2016
SIGNATURE OF INVENTOR			
PRINTED NAME OF INVENTOR	LEONARDO WILLIAM ESTEVEZ		
DATE	6/19/2017		
RESIDENCE (CITY AND STATE)	Rowlett, TX		

Application No.

Attorney Docket No. TI-XXXXX

SIGNATURE OF INVENTOR	ARITON XHAFA 
PRINTED NAME OF INVENTOR	ARITON XHAFA
DATE	11/18/2016
RESIDENCE (CITY AND STATE)	Plano, TX

SIGNATURE OF INVENTOR	RAMANUJA VEDANTHAM
PRINTED NAME OF INVENTOR	
DATE	11/18/16
RESIDENCE (CITY AND STATE)	Allen, TX

SIGNATURE OF INVENTOR	YANJUN SUN
PRINTED NAME OF INVENTOR	
DATE	
RESIDENCE (CITY AND STATE)	Richardson, TX

After recording, return Assignment to: **Texas Instruments Incorporated**  
**P.O. Box 655474, (M/S 3999)**  
**Dallas, Texas 75265**

**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) \_\_\_\_\_ filed \_\_\_\_\_.

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 hereinbelow.

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

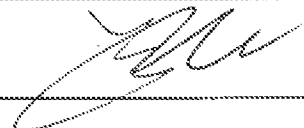
TITLE	POWER EFFICIENT TUNNELED DIRECT LINK SETUP APPARATUS, SYSTEMS AND METHODS		
NONPROVISIONAL APPLICATION NO.	15/289,837	FILING DATE	October 10, 2016
SIGNATURE OF INVENTOR			
PRINTED NAME OF INVENTOR	LEONARDO WILLIAM ESTEVEZ		
DATE			
RESIDENCE (CITY AND STATE)	Rowlett, TX		

Application No.

Attorney Docket No. TI-XXXXX

SIGNATURE OF INVENTOR	ARITON XHAFA
PRINTED NAME OF INVENTOR	
DATE	
RESIDENCE (CITY AND STATE)	Plano, TX

SIGNATURE OF INVENTOR	RAMANUJA VEDANTHAM
PRINTED NAME OF INVENTOR	
DATE	
RESIDENCE (CITY AND STATE)	Allen, TX

SIGNATURE OF INVENTOR	YANJUN SUN 
PRINTED NAME OF INVENTOR	YANJUN SUN
DATE	11/11/2016
RESIDENCE (CITY AND STATE)	Richardson, TX

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