PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY	/ DATA	· · · · · · · · · · · · · · · · · · ·		
		Name	Execution Date	
YUAN YAO			11/25/2013	
JING WANG			11/25/2013	
JUNHUA TAN			11/25/2013	
MOSTAFA MOHAMMAD HANY ALI HAMMAD			11/25/2013	
HUI PAN			11/25/2013	
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	92617			
Postal Code:	92617			
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REEL: 032158 FRAME: 0716

Signature:	/Jason M. Perilla/		
Date:	02/05/2014		
Total Attachments: 5 source=01939877#page1.tif source=01939877#page2.tif source=01939877#page3.tif source=01939877#page4.tif source=01939877#page5.tif			

WHEREAS, the below undersigned inventor, hereinafter referred to as ASSIGNOR, has invented certain new and useful improvements ("Invention(s)") as described and set forth in the below-identified utility application for United States Letters Patent entitled "RAIL-TO-RAIL LINE DRIVER USING DIFFERENTIAL CASCODE BOOTSTRAPING," which was executed on even date herewith, and/or filed with the United States Patent and Trademark Office (USPTO) on <u>November 26, 2013</u>, and assigned Application Number <u>14/090,512</u>. In addition, if applicable, the Invention(s) are further described in U.S. provisional application entitled "RAIL-TO-RAIL LINE DRIVER USING DIFFERENTIAL CASCODE BOOTSTRAPING", filed with the USPTO on November 19, 2013, and assigned Application Number 61/906,107.

WHEREAS, **BROADCOM CORPORATION** having a place of business at 5300 California Avenue, Irvine, California 92617-3038, hereinafter referred to as Assignee, is desirous of acquiring ASSIGNOR'S interest in and to said Invention(s), said utility application, said provisional application (if any), and/or any U.S. and foreign patents which are related to the same.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR, Assigner has sold, assigned and transferred and does hereby sell, assign and transfer unto Assignee, and Assignee's successors and assigns, (a) the entire right, title and interest, for the United States of America, in and to said Invention(s), said utility application, and said provisional application (if any), and all the rights and privileges in any application and under any and all patents that may be granted in the U.S. for said Inventions, including all corresponding provisional, continuation, continuation-in-part, divisional, reissue, and reexamination applications; and (b) the entire right, title and interest in and to said Invention(s), said utility application (if any) for all countries foreign to the U.S., including all rights of priority arising from them, and all the rights and privileges under any and all forms of protection, including patents, that may be granted in said countries foreign to the U.S. for them.

Assignor authorizes Assignee to make application for such protection in its own name and maintain such protection in any and all countries foreign to the U.S., and to invoke and claim for any application for patent or other form of protection for said Inventions, without further authorization from ASSIGNOR, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

Assignor hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Assignee to apply for patent or other form of protection for said Inventions, said utility application, or said provisional application (if any) and to claim the aforesaid benefit of the right of priority.

Assignor requests that any and all patents for said Inventions be issued to Assignee in the U.S. and to Assignee in all countries foreign to the United States, or to such nominee as Assignee may designate.

Assignor covenants and agrees that, when requested, Assignor shall, without charge to Assignee but at Assignee's expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient in connection with the patent applications, patents, or other forms of protection of said Invention(s), and for the defense and protection thereof if challenged in the court of law.

Assignor authorizes Assignee or its agents to insert, on Assignor's behalf, the filing date and/or Application Number above pertaining to the utility application and/or the provisional application (if any), if not known as of the date of execution of this document.

Yuan Yao 86 Topaz Irvine, CA 92602

11/25/2013

Date

PATENT REEL: 032158 FRAME: 0718

WHEREAS, the below undersigned inventor, hereinafter referred to as ASSIGNOR, has invented certain new and useful improvements ("Invention(s)") as described and set forth in the below-identified utility application for United States Letters Patent entitled "RAIL-TO-RAIL LINE DRIVER USING DIFFERENTIAL CASCODE BOOTSTRAPING," which was executed on even date herewith, and/or filed with the United States Patent and Trademark Office (USPTO) on <u>November 26, 2013</u>, and assigned Application Number_14/090,512. In addition, if applicable, the Invention(s) are further described in U.S. provisional application entitled "RAIL-TO-RAIL LINE DRIVER USING DIFFERENTIAL CASCODE BOOTSTRAPING", filed with the USPTO on November 19, 2013, and assigned Application Number 61/906,107.

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Assignor requests that any and all patents for said Inventions be issued to Assignee in the U.S. and to Assignee in all countries foreign to the United States, or to such nominee as Assignee may designate.

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Assignor authorizes Assignee or its agents to insert, on Assignor's behalf, the filing date and/or Application Number above pertaining to the utility application and/or the provisional application (if any), if not known as of the date of execution of this document.

Jing Wang 11577 Brookrun ct. Riverside, CA 92505

Nov/25/2013

Date

PATENT REEL: 032158 FRAME: 0719

WHEREAS, the below undersigned inventor, hereinafter referred to as ASSIGNOR, has invented certain new and useful improvements ("Invention(s)") as described and set forth in the below-identified utility application for United States Letters Patent entitled "RAIL-TO-RAIL LINE DRIVER USING DIFFERENTIAL CASCODE BOOTSTRAPING," which was executed on even date herewith, and/or filed with the United States Patent and Trademark Office (USPTO) on <u>November 26, 2013</u>, and assigned Application Number-<u>14/090,512</u>. In addition, if applicable, the Invention(s) are further described in U.S. provisional application entitled "RAIL-TO-RAIL LINE DRIVER USING DIFFERENTIAL CASCODE BOOTSTRAPING", filed with the USPTO on November 19, 2013, and assigned Application Number 61/906,107.

WHEREAS, **BROADCOM CORPORATION** having a place of business at 5300 California Avenue, Irvine, California 92617-3038, hereinafter referred to as Assignee, is desirous of acquiring ASSIGNOR'S interest in and to said Invention(s), said utility application, said provisional application (if any), and/or any U.S. and foreign patents which are related to the same.

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forthing lan

Junhua Tan 2910 Sleeper Ave. Tustin, CA 92782

Date

11/25/2013

PATENT REEL: 032158 FRAME: 0720

WHEREAS, the below undersigned inventor, hereinafter referred to as ASSIGNOR, has invented certain new and useful improvements ("Invention(s)") as described and set forth in the below-identified utility application for United States Letters Patent entitled "RAIL-TO-RAIL LINE DRIVER USING DIFFERENTIAL CASCODE BOOTSTRAPING," which was executed on even date herewith, and/or filed with the United States Patent and Trademark Office (USPTO) on <u>November 26, 2013</u>, and assigned Application Number-<u>14/090,512</u>. In addition, if applicable, the Invention(s) are further described in U.S. provisional application entitled "RAIL-TO-RAIL LINE DRIVER USING DIFFERENTIAL CASCODE BOOTSTRAPING", filed with the USPTO on November 19, 2013, and assigned Application Number 61/906,107.

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Matha Huner

Mostafa Mohammad Hany Ali Hammad 2790 Kelvin Avenue, Apt. 1310, Irvine, CA 92614

11/25/7013

Date

WHEREAS, the below undersigned inventor, hereinafter referred to as ASSIGNOR, has invented certain new and useful improvements ("Invention(s)") as described and set forth in the below-identified utility application for United States Letters Patent entitled "RAIL-TO-RAIL LINE DRIVER USING DIFFERENTIAL CASCODE BOOTSTRAPING," which was executed on even date herewith, and/or filed with the United States Patent and Trademark Office (USPTO) on <u>November 26, 2013</u>, and assigned Application Number <u>14/090,512</u>. In addition, if applicable, the Invention(s) are further described in U.S. provisional application entitled "RAIL-TO-RAIL LINE DRIVER USING DIFFERENTIAL CASCODE BOOTSTRAPING", filed with the USPTO on November 19, 2013, and assigned Application Number 61/906,107.

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Hui/Pan 18 Golden Poppy Drive Trabuco Canyon, CA 92679

11/25/2013

Date

RECORDED: 02/06/2014