

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3099643

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GOPAL HARIKUMAR	10/08/2013
DANIEL J. MARCHOK	10/27/2014
KENNETH J. RUDOFSKI	03/14/2014

RECEIVING PARTY DATA

Name:	Tellabs Operations, Inc.
Street Address:	1415 West Diehl Road
City:	Naperville
State/Country:	ILLINOIS
Postal Code:	60563

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13730025

CORRESPONDENCE DATA

Fax Number: (978)341-0136
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.

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ATTORNEY DOCKET NUMBER:	2376.2442-028
NAME OF SUBMITTER:	DONNA BARTOLONE
SIGNATURE:	/Donna Bartolone/
DATE SIGNED:	11/07/2014

Total Attachments: 9

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Joint

ASSIGNMENT

WHEREAS, we, **Gopal Harikumar, Daniel J. Marchok and Kenneth J. Rudofski**, have invented a certain improvement in **Filter For Impulse Response Shortening With Additional Spectral Constraints For Multicarrier Transmission** described in an application for Patent,

- the specification of which is about to be filed in the United States Patent Office *(use for utility (37 CFR § 1.53(b)) and design filings only)*;
- is about to be filed in the United States Patent Office as a Provisional Application;
- the specification of which is United States Application No. 13/730,025, filed December 28, 2012;
- the specification of which is a Patent Cooperation Treaty Application, International Application No. _____, filed _____, which designates the United States of America [and is assigned United States Application No. _____];
- which was patented under United States Patent No. _____.


WHEREAS, **Tellabs Operations, Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Delaware**, and having a usual place of business at **1415 West Diehl Road, MS 16, Naperville, Illinois 60563** desires to confirm its interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for any and all related provisional and nonprovisional, international and national phase applications, including any and all substitution, reissue, divisional, continuation, and continuation-in-part applications, and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; we hereby expressly authorize the filing of an International Patent Application under the

Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation, continuation-in-part applications, and all related provisional and nonprovisional, international and national phase applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.


Inventor  Date 10/8/2013
Gopal Harikumar

Address 851 San Marco Avenue
Fremont, California 94539

Witness Signature 

Print Witness Name Dale Quantz

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San Jose, CA 95129

Witness Signature 

Print Witness Name CHAO DENG

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SAN JOSE, CA 95134

Inventor _____ Date _____
Daniel J. Marchok

Address 9028 Lakeridge Drive _____
Princeton, Texas 75407 United States of America _____

Witness Signature _____

Print Witness Name _____

Address _____

Witness Signature _____

Print Witness Name _____

Address _____

Inventor _____ Date _____
Kenneth J. Rudofski

Address 424 S Stone Ave _____
La Grange, Illinois 60525-2718 _____

Witness Signature _____

Print Witness Name _____

Address _____

Witness Signature _____

Print Witness Name _____

Address _____

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Inventor _____ Date _____
Gopal Harikumar

Address 851 San Marco Avenue _____
Fremont, California 94539 _____

Witness Signature _____

Print Witness Name _____

Address _____

Witness Signature _____

Print Witness Name _____

Address _____

Inventor *Daniel J. Marchok* Date 10/27/14
Daniel J. Marchok

Address 9028 Lakeridge Drive
Princeton, Texas 75407

Witness Signature _____

Print Witness Name _____

Address _____

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Print Witness Name _____

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Inventor _____ Date _____

Kenneth J. Rudofski

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Inventor _____ Date _____
Gopal Harikumar

Address 851 San Marco Avenue
Fremont, California 94539

Witness Signature _____

Print Witness Name _____

Address _____

Witness Signature _____

Print Witness Name _____

Address _____

Inventor _____ Date _____
Daniel J. Marchok
Address 9028 Lakeridge Drive
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Witness Signature _____
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Witness Signature _____
Print Witness Name _____
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Inventor *Kenneth J. Rudofski* Date MARCH 14, 2014
Kenneth J. Rudofski
Address 424 S Stone Ave
La Grange, Illinois 60525-2718

Witness Signature _____
Print Witness Name _____
Address _____

Witness Signature _____
Print Witness Name _____
Address _____

State of Illinois
County of DuPage

This instrument was acknowledged before me on March 14, 2014 by Kenneth J. Rudofski.

Kathleen A. McCarthy
Notary Public

