UNITED STATES
PATENT AND TRADEMARK OFFICE

Assignment abstract of title for Application 12414892

Invention title/Inventor	Patent	Publication	Application	PCT	International registration
CHANNEL STACKING SYSTEM AND METHOD OF OPERATION Branislav Petrovic, Itzhak Gurantz, Keith Bargroff	8345798 Jan 01, 2013	20090290659 Nov 26, 2009	12414892 Mar 31, 2009		

Assignments (9 of 9 total)

Assignment 9

Reel/frame	Execution date	Date recorded	Properties	Pages
056656/0204	Jun 23, 2021	Jun 23, 2021	1330	112

Conveyance
RELEASE BY SECURED PARTY (SEE DOCUMENT FOR DETAILS).

Assignors
MUFG UNION BANK, N.A.

Correspondent
CT CORPORATION
4400 EASTON COMMONS WAY
SUITE 125
COLUMBUS, OH 43219

Assignee
MAXLINEAR, INC.
5966 LA PLACE COURT, SUITE 100
CARLSBAD, CALIFORNIA 92008

EXAR CORPORATION
5966 LA PLACE COURT, SUITE 100
CARLSBAD, CALIFORNIA 92008

MAXLINEAR COMMUNICATIONS LLC
5966 LA PLACE COURT, SUITE 100
CARLSBAD, CALIFORNIA 92008

Assignment 8

Reel/frame	Execution date	Date recorded	Properties	Pages
055899/0291	Mar 31, 2021	Apr 12, 2021	163	41

Conveyance
ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignors
MAXLINEAR COMMUNICATIONS LLC

Correspondent
MOORE & VAN ALLEN PLLC
100 NORTH TRYON STREET, SUITE 4700
CHARLOTTE, NC 28202

Assignee
ENTROPIC COMMUNICATIONS, LLC
1345 AVENUE OF THE AMERICAS
46TH FLOOR
NEW YORK, NEW YORK 10105

Assignment 7

Reel/frame	Execution date	Date recorded	Properties	Pages

Comcast, Ex. 1110

055779/0001	Mar 31, 2021	Mar 31, 2021	295	58

Conveyance
RELEASE BY SECURED PARTY (SEE DOCUMENT FOR DETAILS).

Assignors
MUFG UNION BANK, N.A.

Correspondent
MCANDREWS, HELD & MALLOY
500 WEST MADISON STREET
FLOOR 34
CHICAGO, IL 60661

Assignee
MAXLINEAR, INC.
5966 LA PLACE COURT
SUITE 100
CARLSBAD, CALIFORNIA 92008

MAXLINEAR COMMUNICATIONS LLC
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SUITE 100
CARLSBAD, CALIFORNIA 92008

Assignment 6

Reel/frame	Execution date	Date recorded	Properties	Pages
053115/0842	Jul 01, 2020	Jul 01, 2020	1235	101

Conveyance
SUCCESSION OF AGENCY (REEL 042453 / FRAME 0001)

Assignors
JPMORGAN CHASE BANK, N.A.

Correspondent
CT CORPORATION
4400 EASTON COMMONS WAY
SUITE 125
COLUMBUS, OH 43219

Assignee
MUFG UNION BANK, N.A.
350 CALIFORNIA STREET, 17TH FLOOR
SAN FRANCISCO, CALIFORNIA 94104

Assignment 5

Reel/frame	Execution date	Date recorded	Properties	Pages
055776/0482	Feb 13, 2018	Mar 30, 2021	157	9

Conveyance
CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).

Assignors
ENTROPIC COMMUNICATONS LLC

Correspondent
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500 WEST MADISON STREET
FLOOR 34
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Assignee
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SUITE 100
CARLSBAD, CALIFORNIA 92008

Assignment 4

Reel/frame	Execution date	Date recorded	Properties	Pages
042453/0001	May 12, 2017	May 12, 2017	1237	104

Conveyance
SECURITY AGREEMENT

Assignors
MAXLINEAR, INC.
ENTROPIC COMMUNICATIONS, LLC (F/K/A
ENTROPIC COMMUNICATIONS, INC.)
EXAR CORPORATION

Correspondent
MICHAEL VIOLET
4400 EASTON COMMONS WAY
SUITE 125
COLUMBUS, OH 43219

Assignee
JPMORGAN CHASE BANK, N.A., AS COLLATERAL
AGENT
10 SOUTH DEARBORN, FLOOR L-2
MAILCODE: IL1-1145
CHICAGO, ILLINOIS 60603

Assignment 3

Reel/frame	Execution date	Date recorded	Properties	Pages
035717/0628	Apr 30, 2015	May 19, 2015	485	62

Conveyance
MERGER AND CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).

Assignors
ENTROPIC COMMUNICATIONS, INC.
EXCALIBUR SUBSIDIARY, LLC
ENTROPIC COMMUNICATIONS, LLC

Correspondent
MCANDREWS, HELD & MALLOY, LTD.
500 W. MADISON STREET
CHICAGO, IL 60661

Assignee
ENTROPIC COMMUNICATIONS, LLC
5966 LA PLACE COURT
SUITE 100
CARLSBAD, CALIFORNIA 92008

Assignment 2

Reel/frame	Execution date	Date recorded	Properties	Pages
035706/0267	Apr 30, 2015	May 18, 2015	485	66

Conveyance
MERGER AND CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).

Assignors
EXCALIBUR ACQUISITION CORPORATION
ENTROPIC COMMUNICATIONS, INC.
ENTROPIC COMMUNICATIONS, INC.

Correspondent
MCANDREWS, HELD & MALLOY, LTD.
500 W. MADISON STREET
CHICAGO, IL 60661

Assignee
ENTROPIC COMMUNICATIONS, INC.
5966 LA PLACE COURT
CARLSBAD, CALIFORNIA 92008

Assignment 1

Reel/frame	Execution date	Date recorded	Properties	Pages
022476/0229	Mar 30, 2009	Mar 31, 2009	1	3

Conveyance
ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignors
PETROVIC, BRANISLAV
GURANTZ, ITZHAK
BARGROFF, KEITH

Correspondent
TIM ELLIS
6290 SEQUENCE DRIVE
SAN DIEGO, CA 92121

Assignee
ENTROPIC COMMUNICATIONS, INC.
6290 SEQUENCE DRIVE

SAN DIEGO, CALIFORNIA 92121

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Branislav PETROVIC	03/30/2009
Itzhak GURANTZ	03/30/2009
Keith BARGROFF	03/30/2009

RECEIVING PARTY DATA

Name:	Entropic Communications, Inc.
Street Address:	6290 Sequence Drive
City:	San Diego
State/Country:	CALIFORNIA
Postal Code:	92121

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12414892

CH $40.00 12414892

CORRESPONDENCE DATA

Fax Number: (858)768-3601
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Phone: 8587683835
Email: patentteam@entropic.com
Correspondent Name: Tim Ellis
Address Line 1: 6290 Sequence Drive
Address Line 4: San Diego, CALIFORNIA 92121

ATTORNEY DOCKET NUMBER:	E070031USU1
NAME OF SUBMITTER:	Bruce W. Greenhaus

Total Attachments: 2
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ASSIGNMENT

TO WHOM IT MAY CONCERN:

For the sum of ONE DOLLAR AND OTHER VALUABLE CONSIDERATION to us in hand paid, receipt of which is hereby acknowledged, be it known that we,

1. **Branislav PETROVIC**, a citizen of the **United States of America**, having a place of residence at **5936 La Jolla Hermosa Ave., La Jolla, California 92037;**
2. **Itzhak GURANTZ**, a citizen of the **United States of America**, having a place of residence at **5584 Shannon Ridge Lane, San Diego, California 92130**;
3. **Keith BARGROFF**, a citizen of the **United Kingdom**, having a place of residence at **2616 Snowdrop Street, San Diego, California 92105**;

have sold, assigned and transferred and by these presents do sell, assign, transfer and set over unto Entropic Communications, Inc., a Delaware corporation, having a place of business at 6290 Sequence Drive, San Diego, California 92121, its successors, legal representatives, or assigns, the entire right, title and interest in and to a certain invention relating to **Channel stacking system and method of operation**, by me devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on **March 31, 2009,** and assigned Serial No. **12/414,892** and we hereby authorize and instruct Entropic Communications, Inc. to hereafter complete this Assignment by inserting the filing date and serial number in the space provided, when known, including, without limitation, all provisional patent applications, and all original and reissue patents granted thereof, and all divisions, and continuations thereof, including the subject matter of any and all claims which may be obtained in every such patent, and all foreign rights to said invention, and covenant that I have full right to do so, and agree that I will communicate to said corporation or its representatives all facts known to me respecting said invention, whenever requested, and testify in any legal proceedings, sign all lawful papers, make all rightful oaths and generally do everything possible to aid said corporation, its

PATENT
REEL: 022476 FRAME: 0230

ASSIGNMENT

successors, assigns and nominees, to obtain and enforce proper patent protection for said invention in all countries.

The Commissioner of Patents and Trademarks is requested to issue the Letters Patent which may be granted for said invention or any part thereof unto said corporation in keeping with this Assignment.

IN TESTIMONY WHEREOF, Assignor has signed his name on the date indicated.

Dated: 3/30/2009 — B. Petrovic
Branislav PETROVIC

Dated: 3/30/09 — [illegible]
Itzhak GURANTZ

Dated: 3/30/09 — K Bargroff
Keith BARGROFF