

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>David Reynolds</td><td>06/02/2011</td></tr><tr><td>Benjamin Vigoda</td><td>06/02/2011</td></tr><tr><td>Alexander Alexeyev</td><td>06/02/2011</td></tr><tr><td>Jeffrey Bernstein</td><td>06/02/2011</td></tr></tbody></table>	Name	Execution Date	David Reynolds	06/02/2011	Benjamin Vigoda	06/02/2011	Alexander Alexeyev	06/02/2011	Jeffrey Bernstein	06/02/2011			
Name	Execution Date												
David Reynolds	06/02/2011												
Benjamin Vigoda	06/02/2011												
Alexander Alexeyev	06/02/2011												
Jeffrey Bernstein	06/02/2011												
RECEIVING PARTY DATA													
<table border="1"><tr><td>Name:</td><td>Lyric Semiconductor Inc.</td></tr><tr><td>Street Address:</td><td>One Broadway</td></tr><tr><td>Internal Address:</td><td>14th Floor</td></tr><tr><td>City:</td><td>Cambridge</td></tr><tr><td>State/Country:</td><td>MASSACHUSETTS</td></tr><tr><td>Postal Code:</td><td>02139</td></tr></table>	Name:	Lyric Semiconductor Inc.	Street Address:	One Broadway	Internal Address:	14th Floor	City:	Cambridge	State/Country:	MASSACHUSETTS	Postal Code:	02139	
Name:	Lyric Semiconductor Inc.												
Street Address:	One Broadway												
Internal Address:	14th Floor												
City:	Cambridge												
State/Country:	MASSACHUSETTS												
Postal Code:	02139												
PROPERTY NUMBERS Total: 1													
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>PCT Number:</td><td>US1120794</td></tr></tbody></table>	Property Type	Number	PCT Number:	US1120794									
Property Type	Number												
PCT Number:	US1120794												
CORRESPONDENCE DATA													
Fax Number: (617)500-2499 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone: 617-500-2500													
Email: bushey@ortpatent.com													
Correspondent Name: Lindsey M. Bushey													
Address Line 1: 10 Fawcett Street													
Address Line 4: Cambridge, MASSACHUSETTS 02138													
ATTORNEY DOCKET NUMBER:	30055-046WO1												
NAME OF SUBMITTER:	Lindsey M. Bushey												
Total Attachments: 4 source=30055-046WO1-Assignment-MERL#page1.tif source=30055-046WO1-Assignment-MERL#page2.tif source=30055-046WO1-Assignment-MERL#page3.tif source=30055-046WO1-Assignment-MERL#page4.tif													

CH \$40.00 US1120794

ASSIGNMENT

WHEREAS, **David Reynolds** of 10 Starbird Road, Scarborough, ME 04074, and **Benjamin Vigoda** of 44 Lloyd Street, Winchester, MA 01890, **Alexander Alexeyev** of 121 Narragansett Street, Gorham, ME 04038, and **Jeffrey Bernstein** of 933 Fuller Pond Road, Middleton, MA 01949 (“Inventors”), are inventors of the following invention:

BELIEF PROPAGATION PROCESSOR

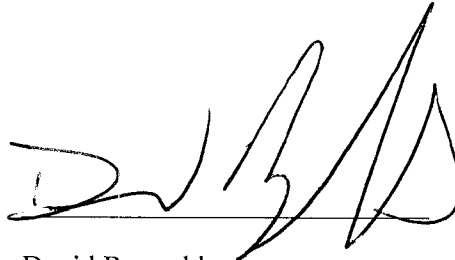
(“Invention”) for which an International Patent Application was filed on January 11, 2011, and assigned application serial number PCT/US11/20794 (“PCT Application”);

WHEREAS, David Reynolds and Benjamin Vigoda have assigned rights in an invention described and claimed in a related U.S. Patent Application serial number 13/079,204, filed on April 4, 2011, (“Related Invention”), to Mitsubishi Electric Research Laboratories, Inc., (“MERL”), the Related Invention being limited by the description and claims of said application, and not including any further inventions and improvements that may be included in documents incorporated by reference in said application or made after the filing date of said application;

NOW THEREFORE, the Inventors hereby confirm ownership by **Lyric Semiconductor, Inc.**, a Delaware corporation, having a place of business at One Broadway, 14th Floor, Cambridge, MA 02139, and its successors and assigns (collectively “Lyric”) of all right, title, and interest in and to the Invention pursuant to the Proprietary Information and Inventions Agreement signed by us and in effect on January 10, 2010; and for valuable consideration, receipt of which is hereby acknowledged, the Inventors do hereby assign, sell, transfer and convey to Lyric, their entire right title and interest in and to the Invention and the PCT Application, the assignment including all the Inventors’ rights, that are not subject to the assignment of the Related Invention to MERL, in the inventions and improvements that are the subject of the PCT Application, International Application Serial Number PCT/US10/25956, filed on March 3, 2010, Taiwan Patent Application filed on March 1, 2010, and assigned application serial number 99105802, United States Provisional Application serial number 61/293,999, filed on January 11, 2010, and United States Provisional Application serial number 61/156,792, filed on March 2, 2009, and any and all United States patents, divisionals, reissues, continuations, requests for continued examination, renewals, and/or extensions of the referenced applications, including any and all foreign patents, utility models, and design registrations granted for said inventions and improvements, and the right to claim priority based on the filing dates of said applications under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize Lyric to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors’ certificates for the Invention;

and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Lyric may reasonably request to effectuate fully this assignment

Dated: June 2 2011

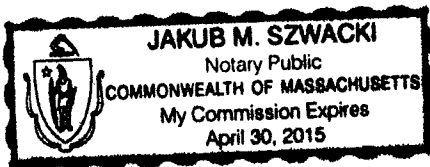


David Reynolds


STATE OF MASSACHUSETTS)
) SS.
COUNTY OF MIDDLESEX)

On 06/02/2011, before me, the undersigned, a notary public for the State of MASSACHUSETTS, there personally appeared David Reynolds personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to this Assignment, who acknowledged having executed the same in his authorized capacity and that by his signature on this Assignment, the person or the entity upon behalf of which he acted, executed this Assignment.

WITNESS my hand and official seal.



Notary Public

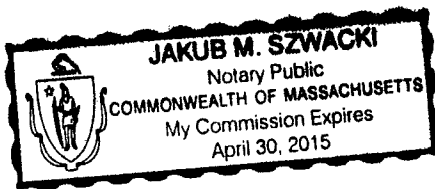
Dated: 06/02/2011


Benjamin Vigoda

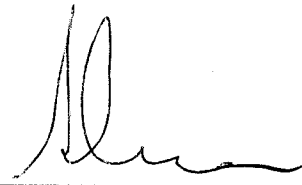
STATE OF MASSACHUSETTS)
) SS.
 COUNTY OF MIDDLESEX)

On 06/02/2011, before me, the undersigned, a notary public for the State of MASSACHUSETTS, there personally appeared Benjamin Vigoda personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to this Assignment, who acknowledged having executed the same in his authorized capacity and that by his signature on this Assignment, the person or the entity upon behalf of which he acted, executed this Assignment.

WITNESS my hand and official seal.




Notary Public

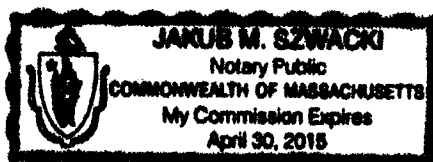

Dated: 06/02/2011


Alexander Alexeyev

STATE OF MASSACHUSETTS)
) SS.
 COUNTY OF MIDDLESEX)

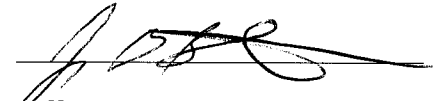
On 06/02/2011, before me, the undersigned, a notary public for the State of MASSACHUSETTS, there personally appeared Alexander Alexeyev personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to this Assignment, who acknowledged having executed the same in his authorized capacity and that by his signature on this Assignment, the person or the entity upon behalf of which he acted, executed this Assignment.

WITNESS my hand and official seal.

Notary Public

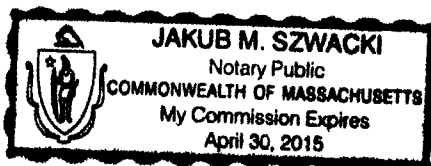
Dated: 06/02/2011


Jeffrey Bernstein

STATE OF MASSACHUSETTS)
) SS.
COUNTY OF MIDDLESEX)

On 06/02/2011, before me, the undersigned, a notary public for the State of MASSACHUSETTS, there personally appeared Jeffrey Bernstein personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to this Assignment, who acknowledged having executed the same in his authorized capacity and that by his signature on this Assignment, the person or the entity upon behalf of which he acted, executed this Assignment.

WITNESS my hand and official seal.




Notary Public