

PATENT ASSIGNMENT

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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>Andrew M. Hawryluk</td> <td>11/20/2012</td> </tr> <tr> <td>David Owen</td> <td>11/20/2012</td> </tr> </tbody> </table>		Name	Execution Date	Andrew M. Hawryluk	11/20/2012	David Owen	11/20/2012
Name	Execution Date						
Andrew M. Hawryluk	11/20/2012						
David Owen	11/20/2012						
RECEIVING PARTY DATA							
Name:	Ultratech, Inc.						
Street Address:	3050 Zanker Road						
City:	San Jose						
State/Country:	CALIFORNIA						
Postal Code:	95134						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13681994</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13681994		
Property Type	Number						
Application Number:	13681994						
CORRESPONDENCE DATA							
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Total Attachments: 2 source=OX13_ASSIGN_EFS#page1.tif source=OX13_ASSIGN_EFS#page2.tif							

OP \$40.00 13681994

ASSIGNMENT OF RIGHTS, TITLE AND INTEREST IN INVENTION

This is an assignment of the followings rights, title and interest: (check all that apply):

- United States of America rights, title and interest in the invention
- Foreign rights, title and interest in the invention throughout the World

United States Patent Application Serial No. 13/681994

Filing date: November 20, 2012

- United States Patent No.
- International (PCT) Patent Application Serial No. _____
- Other (specify) _____

TITLE OF THE INVENTION:

METHODS OF CHARACTERIZING SEMICONDUCTOR LIGHT-EMITTING
DEVICES BASED ON PRODUCT WAFER CHARACTERISTICS

INVENTORS (Assignors):

NAME	ADDRESS
HAWRYLUK, Andrew M.	1207 Carmel Terrace, Los Altos, CA 94024 USA
OWEN, David	510 Avenue D, Redondo Beach, CA 90277 USA

ASSIGNEE

NAME	ADDRESS
ULTRATECH, INC.	3050 ZANKER ROAD SAN JOSE, CA 95134 USA

WHEREAS, I/WE, the above identified inventor(s), have invented certain new and useful improvements in the invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as the "Invention");

AND WHEREAS I/WE desire to assign my/our above-identified rights, title and interest in the Invention to the above-identified Assignee;

NOW THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I/WE as the Assignor(s) identified above hereby assign, sell and transfer our above-identified rights, title and interest in the Invention, including any divisionals, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or haven been granted for the Invention, and in and to any and all reissues and reexaminations thereof, and in and to any and all proprietary rights, Convention rights, and other benefits accruing or to accrue to me/us with respect to filing and/or prosecuting applications for patents or securing patents in the United States and countries foreign thereto, unto the Assignee;

AND I/WE hereby authorize and request the Commissioner of Patents and Trademarks to issue any United States Letters Patents that may issue for the Invention to the Assignee of the whole right, title and interest thereto;

AND I/WE further agree to take any oaths and to sign and execute all necessary and lawful future documents in connection with filing and/or prosecuting applications for U.S. and foreign patents, divisionals, continuations and continuations-in-part of applications for patent and/or for obtaining any reissue or reexamination of any Letters Patent that may be granted for the Invention, as the Assignee or its Designee(s) may from time to time require and prepare at its own expense, and generally to do everything possible to aid the Assignee, its successors and assigns, as Assignee deems necessary to obtain and enforce proper protection for the Invention in the United States and its territorial possessions and in any and all foreign countries.

Date: 11/20/12

Signed: 
Andrew M. HAWRYLUK

Date: Nov 20, 2012

Signed: 
David OWEN