

**PATENT ASSIGNMENT**

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
William H. Mangione-Smith	10/02/2009
Onur Mutlu	10/01/2009
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Phase II LLC
<b>Street Address:</b>	4146 118th Ave. NE
<b>City:</b>	Kirkland
<b>State/Country:</b>	WASHINGTON
<b>Postal Code:</b>	98033
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12577378
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(801)328-1707
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Phone:</b>	801-533-9800
<b>Email:</b>	khauser@wnlaw.com
<b>Correspondent Name:</b>	R. Burns Israelsen
<b>Address Line 1:</b>	1000 Eagle Gate Tower
<b>Address Line 2:</b>	60 East South Temple
<b>Address Line 4:</b>	Salt Lake City, UTAH 84111
<b>ATTORNEY DOCKET NUMBER:</b>	18254.3
<b>NAME OF SUBMITTER:</b>	R. Burns Israelsen

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Total Attachments: 3  
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**PATENT**  
**REEL: 023357 FRAME: 0761**



**ASSIGNMENT OF PATENT RIGHTS**

For valuable consideration, the receipt and sufficiency of which is hereby acknowledged,

William H. Mangione-Smith, 4146 118<sup>th</sup> Ave, NE, Kirkland, Washington 98033 U.S.; and Onur Mutlu, 5911 Alder St. Apt 2, Pittsburgh, Pennsylvania 15232 U.S. (collectively “**Assignors**”), effective as of March 27, 2009, hereby sell, assign, transfer, and convey unto Phase Two LLC, a Limited Liability Company, organized in the state of Washington, having a principal place of business at 4146 118th Ave. NE, Kirkland, WA 98033 U.S. (“**Assignee**”), all right, title, and interest that exist today and may exist in the future in and to any and all of the following (collectively, the “**Rights**”):

1. the inventions disclosed in the solution report/invention disclosure titled “**Reliable Communications over Unreliable On-Chip Multi-core Networks**” and all inventions claimed and/or described in the Application (collectively, the “**Invention**”);
2. the patent applications listed in the table below (the “**Application**”);

Patent Application No.	Country	Filing Date	Title
12/577,378	U.S.	October 12, 2009	RELIABLE COMMUNICATIONS IN ON-CHIP NETWORKS

3. all rights with respect to the Invention, including all U.S. patents or other governmental grants or issuances that may be granted with respect to the Invention or from any direct or indirect divisionals, continuations, continuations-in-part, or other patent applications claiming priority rights from the Application (“**Potential Patents**”);
4. all reissues, reexaminations, extensions, or registrations of the Potential Patents;
5. all non-United States patents, patent applications, and counterparts relating to any or all of the Invention, the Application, and the Potential Patents, including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, and other governmental grants or issuances (“**Foreign Rights**”), and including the right to file foreign applications directly in the name of Assignee, its successors and assigns;
6. all rights to claim priority rights deriving from the Application;
7. all causes of action and remedies related to any or all of the Application, the Invention, the Potential Patents, and the Foreign Rights (including, without limitation, the right to sue for past, present, or future infringement, misappropriation or violation of rights related to any of the foregoing and the right to collect royalties and other payments under or on account of any of the foregoing); and



