

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
PHASE TWO LLC	11/13/2009
RECEIVING PARTY DATA	
Name:	EMPIRE TECHNOLOGY DEVELOPMENT LLC
Street Address:	2711 Centerville Road
Internal Address:	Suite 400
City:	Wilmington
State/Country:	DELAWARE
Postal Code:	19808
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14021940
CORRESPONDENCE DATA	
Fax Number:	
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	435-252-1360
Email:	tkellogg@mabr.com
Correspondent Name:	R. Burns Israelsen
Address Line 1:	1389 Center Drive
Address Line 2:	Suite 600
Address Line 4:	Park City, UTAH 84098
ATTORNEY DOCKET NUMBER:	I1013.10081US02
NAME OF SUBMITTER:	R. Burns Israelsen
Signature:	/R. Burns Israelsen/ Reg.#42,685
Date:	09/10/2013
Total Attachments: 3 source=I1013-10081US02-Assignment2#page1.tif source=I1013-10081US02-Assignment2#page2.tif source=I1013-10081US02-Assignment2#page3.tif	

OP \$40.00 14021940

### ASSIGNMENT OF PATENT RIGHTS

For valuable consideration, the receipt and sufficiency of which is hereby acknowledged, William H. Mangione-Smith, on behalf of 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. ("**Assignor**"), effective as of July 27, 2009, hereby sells, assigns, transfers, and conveys unto

(A) Empire Technology Development LLC, a Delaware limited liability company, with an address at 2711 Centerville Road, Suite 400, Wilmington, DE 19808 ("**U.S. Assignee**"), all United States rights, title, and interests that exist today and may exist in the future in and to any and all of the following items (1) through (8) below (collectively, the "**U.S. Rights**"), and

(B) Glitter Technology LLP, a Singapore limited liability partnership, with an address at 152 Beach Road, #37-06, Gateway East, Singapore 189721 ("**Non-U.S. Assignee**"), all non-United States rights, title, and interests that exist today and may exist in the future in and to any and all of the following items (1) through (8) below (collectively, the "**Non-U.S. Rights**");

1. the inventions disclosed in the solution report/invention disclosure titled "***Beneficially predicting the incorrect port for routing packets within a network-on-chip***" and all inventions claimed and/or described in the Application (collectively, the "**Invention**");
2. the patent applications listed in the table below (the "**Application**");

<u>Patent Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title</u>
12/648,124	US	Dec 28, 2009	ROUTING PACKETS IN ON-CHIP NETWORKS
14/021,940	US	Sep 9, 2013	PACKET ROUTING WITHIN AN ON-CHIP NETWORK

3. all rights with respect to the Invention, including all United States 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
8. any and all other rights and interests arising out of, in connection with, or in relation to the Application, the Invention, Potential Patents, and the Foreign Rights.


As used in this Assignment, "Assignee" means, collectively, the U.S. Assignee and the Non-U.S. Assignee. Assignor will not sign any document or do any act conflicting with this Assignment, and, without further compensation, will sign all documents and do such additional acts as Assignee, its successors, legal representatives, and assigns deem necessary or desirable to perfect enjoyment of the Rights, conduct proceedings regarding the Rights (including any litigation or interference proceedings), or perfect or defend title to the Rights. Assignor requests the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models, or other governmental grants or issuances that may be granted upon any of the Rights in the name of the Assignee, as the assignee to the entire interest therein.

Assignor hereby authorizes and requests legal representative Workman Nydegger, 1000 Eagle Gate Tower, 60 East South Temple, Salt Lake City Utah 84111 US, to insert on this Assignment the filing date and Patent Application Numbers in the table above when known.

The terms and conditions of this Assignment will inure to the benefit of Assignee, its successors, legal representatives, and assigns and will be binding upon Assignor, their successors, legal representatives and assigns.

[Signature Page(s) to Follow]

By:

  
\_\_\_\_\_  
William H. Mangione-Smith, on behalf of  
Phase Two LLC  
4146 118th Ave. NE,  
Kirkland, WA 98033 U.S.

**NOTARIZATION**

STATE OF Washington )  
 ) ss.  
COUNTY OF King )

On November 13, 2009, before me, Paula Hutchison Notary Public,  
personally appeared William H. Mangione-Smith, who proved to me on the basis of satisfactory  
evidence to be the person whose name is subscribed to the within instrument and  
acknowledged to me that he executed the same in his authorized capacity, and that by his  
signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s)  
acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of Washington that the  
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature 