502974786 09/12/2014

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
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STEPHEN E. PHILLIPS	03/14/2013
DAVID RICHARD SMENTEK	03/14/2013
CONNIE WAI MUN CHEUNG	03/22/2013
SERENA WING YEE LEUNG	03/14/2013
DAMIEN WALKER	03/14/2013
RAMASWAMY SIVARAMAKRISHNAN	03/14/2013

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13830967

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ATTORNEY DOCKET NUMBER:	33227/860001
NAME OF SUBMITTER:	ROBERT P. LORD
SIGNATURE:	/Robert P. Lord/
DATE SIGNED:	09/12/2014

502974786 PATENT REEL: 033734 FRAME: 0717

Total Attachments: 4

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PATENT REEL: 033734 FRAME: 0718 32615
PATENT TRADEMARK OFFICE

ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned individual(s) (referred to herein as the "INVENTOR(S)") hereby assign, transfer, and set over to:

Oracle International Corporation

having the following address:

500 Oracle Parkway, Mail Stop 5op7 Redwood Shores, California 94065

(referred to herein as "COMPANY"), its successors, and assigns, the entire right, title, and interest, worldwide, in and to the invention known by the following title:

BROADCAST CACHE COHERENCE ON PARTIALLY-ORDERED NETWORK

for which the undersigned has/have executed an application for patent in the United States of America on or about this same day, together with said patent application, all divisions, continuations, continuations-in-part, reissues, and extensions thereof, and all Letters Patent (domestic and foreign) which may be granted therefor. Such interest represents the entire ownership of said applications and Letters Patent when granted and is to be owned by COMPANY, its successors, and assigns, or their legal representatives, for the full and entire term for which such Letters Patent may be granted or extended, as fully and entirely as the same would have been enjoyed by the INVENTOR(S) if this assignment had not been made.

In addition, the undersigned INVENTOR(S) each hereby agrees:

- To sign and execute any further documents which may be necessary or desirable, lawful, and proper in connection with the prosecution of all applications for patent(s) on the INVENTION in the United States, including without limitation said application and all divisions, continuations, continuations-in-part, amendments thereof, and all interference proceedings associated therewith, or otherwise necessary or desirable to secure the title thereto to COMPANY;
- To execute all papers and documents and to perform all lawful acts which may be necessary in connection with claims to priority or otherwise under the International Convention for the Protection of Industrial Property or similar treaties or agreements;
- 3. To perform all lawful affirmative acts which may be necessary to obtain the grant of a valid and enforceable patent to COMPANY.

The undersigned INVENTOR(S) each hereby authorizes and requests the Commissioner of Patents and Trademarks in the United States to issue any and all Letters Patent resulting from said application, including without limitation any division, continuation, continuation-in-part, or reissue thereof to COMPANY.

The undersigned INVENTOR(S) each hereby grants to the firm of OSHA LIANG LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for the recordation of this document.



		has been executed by each of the undersigned
individuals on the date appearing b	y such individual's signatu	re: () * + 1 /
PM 14 Mach 2013 Date	Ist Inventor Signature:	Paul N! Loewenstein
•	Print or Type Name: _	1 2/ 505
14 MARCH 2013	2 nd Inventor Signature: _	Styl thelli
Date	Print or Type Name:	Stephen E. Phillips
14 March 2013 Date	3 rd Inventor Signature:	Mayo
Date	Print or Type Name:	David Richard Smentek
Date	4 th Inventor Signature:	Connie Wai Mun Cheung
	Print or Type Name:	Sur!
	5th Inventor Signature:	
Date	Print or Type Name: _	Serena Wing Yee Leung
14 WENCH 5013	6 th Inventor Signature:	- could
Date	Print or Type Name:	Damien Walker
14 March 2013	7 th Inventor Signature:	
Date	Print or Type Name:	Ramaswamy Sivaramakrishnan

When this Assignment is <u>not</u> filed concurrently with the patent application, the following identifying information may be added <u>after</u> execution:

U.S. Application Serial No.: 13/830,967

Filing Date: M

March 14, 2013



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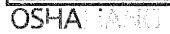
IN WITNESS WHEREOF, this Assignment has been executed by each of the undersigned individuals on the date appearing by such individual's signature:

Date	1 st Inventor Signature: Print or Type Name:	Paul N. Loewenstein
Date	2 rd Inventor Signature: Print or Type Name:	Stephen E. Phillips
Date	3 rd Inventor Signature: Print or Type Name:	David Richard Smentek
3/22/2013 Date	4 th Inventor Signature: Print or Type Name:	Connie Wai Mun Cheung
Date	5 th Inventor Signature: Print or Type Name:	Serena Wing Yee Leung
Date	6 th Inventor Signature: Print or Type Name:	Damien Walker
Date	7 th Inventor Signature: Print or Type Name:	Ramaswamy Sivaramakrishnan

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individuals on the date appearing by such individual's signature: 1st Inventor Signature: Paul N. Loewenstein Date Print or Type Name: 2nd Inventor Signature: Stephen E. Phillips Print or Type Name: 3rd Inventor Signature; David Richard Smentek Date Print or Type Name: 4th Inventor Signature: Connie Wai Mun Cheung Print or Type Name: 5th Inventor Signature:

Print or Type Name:

6th Inventor Signature:

Print or Type Name:

7th Inventor Signature:

Print or Type Name: _

In witness whereof, this Assignment has been executed by each of the undersigned

Damien Walker

Ramaswamy Siyaramakrishnan

When this Assignment is <u>not</u> filed concurrently with the patent application, the following identifying information may be added <u>after</u> execution:

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OSHALIANC

Date

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PATENT REEL: 033734 FRAME: 0722

RECORDED: 09/12/2014