PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DINESH DAS	07/28/2015
MOHAMED ZAIT	07/29/2015
JIAQI YAN	07/28/2015
NILOY MUKHERJEE	07/29/2015

RECEIVING PARTY DATA

Name:	ORACLE INTERNATIONAL CORPORATION		
Street Address:	500 ORACLE PARKWAY		
Internal Address:	MAILSTOP 50P7		
City:	REDWOOD SHORES		
State/Country:	CALIFORNIA		
Postal Code:	94065		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14806601

CORRESPONDENCE DATA

Fax Number: (408)414-1076

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Correspondent Name: HICKMAN PALERMO BECKER BINGHAM

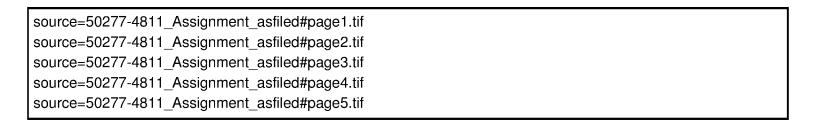
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Address Line 2: FLOOR 12

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Total Attackments. 5	
DATE SIGNED:	07/31/2015
SIGNATURE:	/DanielEMiller#69752/
NAME OF SUBMITTER:	DANIEL E. MILLER, REG. NO. 69,752
ATTORNEY DOCKET NUMBER:	50277-4811

Total Attachments: 5



ASSIGNMENT OF APPLICATION FOR PATENT

WHEREAS:

DINESH DAS, of Redwood City; California;

MOHAMED ZAIT, of San Jose, California; and

JIAQI YAN, of San Carlos, California; and

NILOY MUKHERJEE, of Belmont, California;

all of the United States of America, (hereinafter referred to as ASSIGNOR(S)), has made a discovery and/or invention entitled:

OPTIMIZING EXECUTION PLANS FOR IN-MEMORY-AWARE JOINS

	for which application for Letters Patent of the United States has been executed on even date herewith,
\boxtimes	for which application for Letters Patent of the United States has been filed on <u>July 22</u> , <u>2015</u> , under Application No. <u>14/806,601</u> , and

WHEREAS:

Oracle International Corporation, a corporation of California, having a business address of 500 Oracle Parkway, Mail Stop 5OP7, Redwood Shores, CA 94065

and which, together with its successors, assigns, and legal representatives, is hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:

Be it known that for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sells, assigns and transfers to ASSIGNEE, the full and exclusive right, title and interest to said discovery or invention in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, continuation-in-part, divisional, reexamination, renewal, substitute, reissue and/or any application claiming priority thereof, including any legal equivalent thereof, in a foreign country for the full term or terms for which the same may be granted.

ORA150917-US-NP

I, SAID ASSIGNOR(S), hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and any Official of any country or countries foreign to the United States of America whose duty it is to issue Letters Patent on applications as aforesaid, to issue all such Letters Patent for said discovery or invention to the ASSIGNEE, as assignee of the entire right, title and interest in, to and under the same, for the sole use and benefit of the ASSIGNEE in accordance with the terms of this instrument.

I, SAID, ASSIGNOR(S), hereby covenant with ASSIGNEE that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned and that I have full right to convey the entire right, title and interest herein sold, assigned, transferred and set over:

AND I, SAID ASSIGNOR(S) hereby further covenant and agree that the ASSIGNEE may apply for foreign Letters Patent on said discovery or invention and claim the benefits of the International Convention, and that I will, at any time, when called upon to do so by the ASSIGNEE communicate to the ASSIGNEE as the case may be, any facts known to me respecting said discovery or invention, and execute and deliver any and all lawful papers that may be necessary or desirable to perfect the title to the said discovery or invention, the said applications and the said Letters Patent in the ASSIGNEE and that if reissues or reexaminations of the said Letters Patent or disclaimers relating thereto, or divisionals, continuations, continuation-in-parts of the said applications shall hereafter be desired by the ASSIGNEE, I will, at any time, when called upon to do so by the ASSIGNEE sign all lawful papers, make all rightful oaths, execute and deliver all such disclaimers and all divisional, continuation, continuation-in-part, reexamination, and reissue applications so desired, and do all lawful acts requisite for the application for such continuations, continuation-in-parts, divisionals, reexaminations, or reissues and the procuring thereof and for the filing of such disclaimers and such applications, and generally do everything possible to aid the ASSIGNEE to obtain and enforce proper patent protection for said invention or discovery in all countries, all without further compensation but at the expense of the ASSIGNEE.

ASSIGNOR hereby authorizes and requests the prosecuting law firm to insert herein above the application number and filing date of said application when known.

Inventor(s): Please Sign and Date Below:

 $\frac{Did}{Dinesh DAS} Dos = \frac{07/28/2015}{2015}$ (1)

(2) MOHAMED ZAIT Date: $\frac{7}{29}$ /1.

(3)	间络	Date:	01/24/2015
3.	ITAOLYAN		

(4) Nily MINIEPTER Date: 07/29/2015

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