503891875 06/28/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3938524

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ARVIND KUMAR MAHESHWARI	06/15/2016
RAGHAV RAVICHANDRAN	06/16/2016
VLADIMIR VOLCHEGURSKY	06/18/2016
TSE-HAN HUANG	06/15/2016

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15186938

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	R00107NP
NAME OF SUBMITTER:	INGRID COTE
SIGNATURE:	/Ingrid Cote/
DATE SIGNED:	06/28/2016

Total Attachments: 5

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PATENT 503891875 REEL: 039027 FRAME: 0776

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> PATENT REEL: 039027 FRAME: 0777

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, M/S 50P7 Redwood Shores, CA 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:

SEASONALITY VALIDATION AND DETERMINATION OF PATTERNS

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:

- 1. 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 grant to the COMPANY 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.

1 of 2

6/15/2016 Date		Arvind Kumar Maheshwari
Date	2 nd Inventor Signature:	Raghav Ravichandran
Date		Vladimir Volchegursky
Date		Tse-Han Huang
When thi the follow	s Assignment is <u>not</u> filed concuing identifying information may	arrently with the patent application, be added <u>after</u> execution:

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:	Arvind Kumar Maheshwari
6\16\2016	2 nd Inventor Signature:	Raphu
Date	Print or Type Name:	Raghav Ravichandran
Date	3 rd Inventor Signature:	
		Vladimir Volchegursky
	4 th Inventor Signature:	
Date	Print or Type Name:	Tse-Han Huang

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. Patent Application Serial No.: 15/186,938

Filing Date: 06/20/2016

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

	1st Inventor Signature:	
Date	Print or Type Name:	Arvind Kumar Maheshwari
Date	2 nd Inventor Signature:	
	Print or Type Name:	Raghav Ravichandran
6/18/2016 Date	3 rd Inventor Signature: Print or Type Name:	Uab Whyws/5 Vladimir Volchegursky
Date	4th Inventor Signature:	
	Print or Type Name:	Tso-Han Huang

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Attorney Docket No. R00107NP/ ORA160544-US-NP

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	1 st Inventor Signature:	
Date	Print or Type Name:	Arvind Kumar Maheshwari
	2 nd Inventor Signature:	
Date	Print or Type Name:	Raghav Ravichandran
	3 rd Inventor Signature:	
Date	Print or Type Name:	Vladimir Volchegursky
06/15/2016 Date	4 th Inventor Signature:	Teella Swang
Date	Print or Type Name	Tse-Han Huang

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. Patent Application Serial No.: 15/186,938

Filing Date: 06/20/2016

RECORDED: 06/28/2016