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PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Gary Machol	06/21/2012
Guy Rozenwald	06/21/2012

RECEIVING PARTY DATA

Name:	SAP AG
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13532325

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ATTORNEY DOCKET NUMBER: 2012P00357US

NAME OF SUBMITTER: Richard S. Finkelstein

Total Attachments: 3

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PATENT REEL: 028438 FRAME: 0277

Docket No.: 2012P00357US (S20.161)

This is an Assign	ment of the following rights, title and interest: (check all that apply)
□ United States	s of America rights, title and interest in the invention
	s, title and interest in the invention
The following	g United States Patent Application
United St	ates Patent Application No.: <u>13/532,325</u>
Which wa	as filed on: <u>June 25, 2012</u>
United States	s Provisional Patent Application Serial No.:
United States	s Patent No(s).:
International	(PCT) Patent Application Serial No.:
Other (specif	ý):
QUERY VALIDA	TOR
	Inventors (assignors)
Name	Address
Gary Machol	SAP Global IP Group, SAP AG, Dietmar-Hopp-Allee 16, D-69190 Walldorf, Germany
Guy Rozenwald	SAP Global IP Group, SAP AG, Dietmar-Hopp-Allee 16, D-69190 Walldorf, Germany
	Assignee
Name	Address
SAP AG	Dietmar-Hopp-Allee 16, D-69190 Walldorf, Germany

ASSIGNMENT OF RIGHTS, TITLE AND INTEREST IN INVENTION

Docket No.: 2012P00357US (S20.161)

Whereas, we, the above-identified Inventor, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

And, whereas we desire to assign our above-identified rights, title and interest in the Invention to the above-identified assignee;

Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged;

We hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or have granted for said Invention, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any United States Letters Patent which may issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;

And we further authorize and request that attorney, Richard S. Finkelstein, of Buckley, Maschoff & Talwalkar LLC, insert the filing date and application number of the above-referenced patent application when known;

And we further agree to sign and execute all necessary and lawful future documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its Designee(s) may from time to time require and prepare at its own expense.

Docket No.: 2012P00357US (\$20,161)

Inventors' Signatures

Gary Machol:

Witnessed by: 647

Guy Rozenwald: 6-4-7

Witnessed by: Gary Mac 40/

Date: 21 June 2012

Date: 21 Jule 2012

Date: 2-1 Julie 2012

Date: 21 June 20/2