

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MICHAEL LUDWIG	03/27/2020
JOHANNES MERX	03/26/2020
MATTHIAS VIGELIUS	03/25/2020
CHRISTOPH WEYERHAEUSER	03/27/2020
RECEIVING PARTY DATA	
Name:	SAP SE
Street Address:	DIETMAR-HOPP-ALLEE 16
City:	WALLDORF
State/Country:	GERMANY
Postal Code:	69190
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16833318
CORRESPONDENCE DATA	
Fax Number:	(212)983-3115
<i>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.</i>	
Phone:	2129353000
Email:	IPDocketingBOS@mintz.com
Correspondent Name:	MINTZ, LEVIN, COHN, FERRIS, GLOVSKY AND POPEO, P.C
Address Line 1:	666 THIRD AVENUE, 24TH FLOOR
Address Line 4:	NEW YORK, NEW YORK 10017
ATTORNEY DOCKET NUMBER:	54874-544F01US/200161US01
NAME OF SUBMITTER:	BORIS A. MATVENKO
SIGNATURE:	/Boris A. Matvenko/
DATE SIGNED:	03/27/2020
Total Attachments: 4	
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source=054874-544F01US Executed Assignments#page2.tif	
source=054874-544F01US Executed Assignments#page3.tif	

Attorney Dkt. No. / 200161US01

ASSIGNMENT

For valuable consideration, I, **Michael Ludwig**,

hereby assign to

SAP SE, a corporation of Europe having a place of business at Dietmar-Hopp-Allee 16, 69190 Walldorf, Germany

and its successors, and assigns (collectively, the ASSIGNEE) my entire right, title and interest throughout the world in the inventions and improvements in a patent document entitled:

Database calculation engine with dynamic top operator

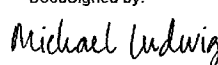
which is found in the:

US patent application filed on: March 27, 2020

under Application No. 16/833,318

I authorize and request the attorneys of record or the attorney filing the application to insert into this assignment the filing date and serial number of the application when known. This assignment includes the foregoing patent application or patent, as well as continuations and divisionals of said application, all legal equivalents in any country, and all patents issuing from such legal equivalents; all patents, utility models, and design registrations granted by any jurisdiction for any of said inventions and improvements; and the right to claim priority based on the filing date of the foregoing patent application or patent under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes. I authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements. I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with this assignment. I hereby state and agree that no assignment, sale, agreement, or encumbrance has been or will be made or entered into that would conflict with this assignment. I further agree for myself and my heirs, legal representatives, and assigns to provide to the Assignee promptly upon its request and at its expense all pertinent facts and documents relating to any of said inventions and improvements or said patents and legal equivalents as may be known and accessible to me and to testify as to the same in any interference, litigation, or proceeding relating thereto; and I agree promptly to perform such lawful acts and to sign such further applications, assignments, statements, and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Inventor's Signature:

DocuSigned by:

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3/27/2020

Michael Ludwig

Attorney Dkt. No. / 200161US01

ASSIGNMENT

For valuable consideration, I, **Johannes Merx**,

hereby assign to

SAP SE, a corporation of Europe having a place of business at Dietmar-Hopp-Allee 16, 69190 Walldorf, Germany

and its successors, and assigns (collectively, the ASSIGNEE) my entire right, title and interest throughout the world in the inventions and improvements in a patent document entitled:

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Inventor's Signature:

DocuSigned by:
Johannes Merx
3CD757BAAFE1477...

3/26/2020

Johannes Merx

Attorney Dkt. No. / 200161US01

ASSIGNMENT

For valuable consideration, I, **Matthias Vigelius**,

hereby assign to

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Inventor's Signature:

DocuSigned by:
Matthias Vigelius
D59E6D9E90704E9...

3/25/2020

Matthias Vigelius

Attorney Dkt. No. / 200161US01

ASSIGNMENT

For valuable consideration, I, **Christoph Weyerhaeuser**,
hereby assign to

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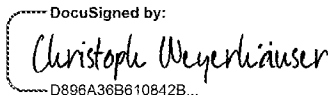
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Inventor's Signature:

DocuSigned by:

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3/27/2020

Christoph Weyerhaeuser