

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KARL-PETER NOS	08/23/2016
KLAUS KISTL	08/23/2016
ANDRE VOIGTMANN	08/11/2016
STEFAN ZIEGLER	08/22/2016
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<b>Postal Code:</b>	D-69190
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15215017
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<b>ATTORNEY DOCKET NUMBER:</b>	14291-209-999
<b>NAME OF SUBMITTER:</b>	JESSICA L. DORSEY
<b>SIGNATURE:</b>	/Jessica L. Dorsey/
<b>DATE SIGNED:</b>	03/22/2017
<b>Total Attachments: 2</b>	
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source=14291-209-999_Assignment#page2.tif	

## ASSIGNMENT

WHEREAS, WE, **Karl-Peter NOS**, citizen of the Federal Republic of Germany, having a mailing address of Dietmar-Hopp-Allee 16, Walldorf, Germany D-69190 residing at Nussloch, Germany, **Klaus KISTL**, citizen of the Federal Republic of Germany, having a mailing address of Dietmar-Hopp-Allee 16, Walldorf, Germany D-69190 residing at Wiesloch, Germany, **Jan PUR**, citizen of the Czech Republic, having a mailing address of Dietmar-Hopp-Allee 16, Walldorf, Germany D-69190 residing at Oftersheim, Germany, **Andre VOIGTMANN**, citizen of the Federal Republic of Germany, having a mailing address of Dietmar-Hopp-Allee 16, Walldorf, Germany D-69190 residing at Plankstadt, Germany and **Stefan ZIEGLER**, citizen of the Federal Republic of Germany, having a mailing address of Dietmar-Hopp-Allee 16, Walldorf, Germany D-69190 residing at Walldorf, Germany, ASSIGNORS, are the inventors of the invention in Big Data Computing Architecture for which an application for a Patent of the United States has been filed.

- which is identified by Jones Day docket no. 14291-209-999/ 151200US01 (CAM: 530198-999209)
- which was filed on July 20, 2016, Application No. 15/215,017

and WHEREAS, **SAP SE**, a public company registered in accordance with the corporate law of the European Union, and having an office for the transaction of business at Dietmar-Hopp-Allee 16, Walldorf, Germany, D-69190, ASSIGNEE, is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and all right to sue for infringement including past infringement.

AND WE HEREBY authorize and request the Commissioner for Patents and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

*K.P.N.*

Date ~~27.8.~~ 27.8. , 2016

*Karl-Peter NOS*  
Karl-Peter NOS L.S.

Date *D.P.* , 2016

Witness 1 *[Signature]*

Date 23.8. , 2016

Witness 2 *[Signature]*

Date 27.8. , 2016

*Klaus KISTL*  
Klaus KISTL L.S.

Date *D.P.* , 2016

Witness 1 *[Signature]*

Date 21.8. , 2016

Witness 2 *[Signature]*

Date 19.8. , 2016

Jas PUR L.S.

Date 11.8. , 2016

Witness 1 *[Signature]*

Date 27.8. , 2016

Witness 2 *[Signature]*

Date 11.8. , 2016

Andre VOIGTMANN L.S.

Date 11.8. , 2016

Witness 1 *[Signature]*

Date 11.8. , 2016

Witness 2 *[Signature]*

Date 22.8. , 2016

Stefan ZIEGLER L.S.

Date 22.8. , 2016

Witness 1 *[Signature]*

Date 22.8. , 2016

Witness 2 *[Signature]*