

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
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ANCA MARIA FLORESCU	03/13/2017
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TATJANA BOROVIKOV	03/13/2017
GUIDO WAGNER	02/27/2017
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CHRISTIAN GRAIL	02/28/2017
BOGDAN ALEXANDER	03/13/2017
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15459809

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PATENT

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NAME OF SUBMITTER: AMIRALI SHARIFI

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DATE SIGNED: 03/15/2017

Total Attachments: 5

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ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventors: **Malin Wittkopf, Anca Maria Florescu, Christina Hall, Tatjana Borovikov, Guido Wagner, Klaus Herter, Felix Harling, Christian Knirsch, Christian Grail, Bogdan Alexander, Joachim Fiess, Hergen Siefken, Hee Tatt Ooi, Hans-Juergen Richstein, Marita Kruempelmann and Ingo Rues**, hereby sell and assign to **SAP SE**, a corporation formed under the laws of Germany, whose mailing address is **SAP Global IP Group, SAP SE, Dietmar-Hopp-Allee 16, Walldorf, Germany D-69190** (hereafter referred to as the Assignee), his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, for the United States of America (as defined in 35 U.S.C. § 100) and throughout the world,

(a) in the invention(s) known as **MULTI-DIMENSIONAL DATA VISUALIZATION** for which application(s) for patent in the United States of America has a filing date or a 371(c) date of _____ (also known as United States Application No. _____), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including non-provisional applications, continuing (continuation, divisional, or continuation-in-part) applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement 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;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate

assignments in connection with such application(s) as the Assignee may deem necessary or expedient.






The undersigned inventors agree to execute all papers necessary in connection with any judicial or administrative proceeding, including but not limited to an interference, derivation, post-grant proceeding, or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof or Letters Patent(s) therefor and to cooperate with the Assignee in every way possible in obtaining evidence and assisting with such judicial or administrative proceeding.

The undersigned inventors hereby represent that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventors hereby grant the patent practitioners associated with **CUSTOMER NUMBER 82515** the power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

The undersigned inventors hereby represent that he/she understands that the patent practitioners associated with **CUSTOMER NUMBER 82515** are the legal representatives of, and attorneys for, the assignee, and are NOT the legal representatives of, and attorneys for, the inventors.

IN WITNESS WHEREOF, executed by the undersigned inventors on the date opposite his/her name.

Date: <u>22.2.2017</u>	Signature of Inventor: <u></u> Malin Wittkopf
Date: _____	Signature of Inventor: <u></u> Anca Maria Florescu
Date: <u>27.02.2017</u>	Signature of Inventor: <u></u> Christina Hall
Date: _____	Signature of Inventor: <u></u> Tatjana Borovikov
Date: <u>27.2.2017</u>	Signature of Inventor: <u></u> Guido Wagner

assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any judicial or administrative proceeding, including but not limited to an interference, derivation, post-grant proceeding, or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof or Letters Patent(s) therefor and to cooperate with the Assignee in every way possible in obtaining evidence and assisting with such judicial or administrative proceeding.

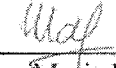
The undersigned inventors hereby represent that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventors hereby grant the patent practitioners associated with **CUSTOMER NUMBER 82515** the power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.


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IN WITNESS WHEREOF, executed by the undersigned inventors on the date opposite his/her name.


Date: _____ Signature of Inventor: _____
Malin Wittkopf

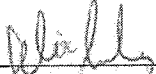
Date: 13.03.2017 Signature of Inventor: 
Anca Maria Florescu

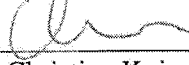
Date: _____ Signature of Inventor: _____
Christina Hall

Date: 13.03.2017 Signature of Inventor: 
Tatjana Borovikov


Date: _____ Signature of Inventor: _____
Guido Wagner

Date: 27/10/17 Signature of Inventor: 
Klaus Herter

Date: _____ Signature of Inventor: 
Felix Harling

Date: 7/3/17 Signature of Inventor: 
Christian Knirsch


Date: 2/28/2017 Signature of Inventor: Christian Grail
Christian Grail

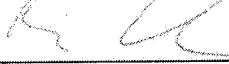
Date: _____ Signature of Inventor: 
Bogdan Alexander

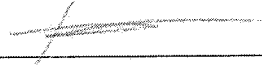
Date: _____ Signature of Inventor: Joachim Fiess
Joachim Fiess


Date: 07.03.17 Signature of Inventor: Hergen Siefken
Hergen Siefken


Date: 2/27/2017 Signature of Inventor: Hee Tatt Ooi
Hee Tatt Ooi

Date: 2/27/2017 Signature of Inventor: 
Hans-Juergen Richstein

Date: 2/27/2017 Signature of Inventor: 
Marita Kruempelmann


Date: 31.6.17 Signature of Inventor: 
Ingo Rues


Date: 13.03.2017 Signature of Inventor: 
Klaus Herter


Date: 13.03.2017 Signature of Inventor: 
Felix Harling

Date: _____ Signature of Inventor: _____
Christian Knirsch

Date: _____ Signature of Inventor: _____
Christian Grail

Date: 13.3.2017 Signature of Inventor: 
Bogdan Alexander

Date: 13.3.2017 Signature of Inventor: 
Joachim Fiess

Date: 13.03.2017 Signature of Inventor: 
Hergen Siefken

Date: _____ Signature of Inventor: _____
Hee Tatt Ooi

Date: _____ Signature of Inventor: _____
Hans-Juergen Richstein

Date: _____ Signature of Inventor: _____
Marita Kruempelmann

Date: _____ Signature of Inventor: _____
Ingo Rues