

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT2691846

SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>FREDERIK TRANSIER</td> <td>01/14/2014</td> </tr> <tr> <td>FRANZ FAERBER</td> <td>01/14/2014</td> </tr> </tbody> </table>		Name	Execution Date	FREDERIK TRANSIER	01/14/2014	FRANZ FAERBER	01/14/2014
Name	Execution Date						
FREDERIK TRANSIER	01/14/2014						
FRANZ FAERBER	01/14/2014						
RECEIVING PARTY DATA							
Name:	SAP AG						
Street Address:	DIETMAR-HOPP-ALLEE 16						
City:	WALLDORF						
State/Country:	GERMANY						
Postal Code:	D-69190						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13926917</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13926917		
Property Type	Number						
Application Number:	13926917						
CORRESPONDENCE DATA							
Fax Number:							
Email:	tbarnett@mintz.com						
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>							
Correspondent Name:	MINTZ LEVIN COHN FERRIS GLOVSKY & POPEO						
Address Line 1:	3580 CARMEL MOUNTAIN ROAD, SUITE 300						
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ATTORNEY DOCKET NUMBER:	34874-533C01US						
NAME OF SUBMITTER:	CARL A. KUKKONEN, III						
Signature:	/ck3/						
Date:	01/22/2014						
Total Attachments: 3 source=34874_533C01US_Assignment#page1.tif source=34874_533C01US_Assignment#page2.tif source=34874_533C01US_Assignment#page3.tif							

## ASSIGNMENT

We, **Frederik Transier** of Heidelberg, Germany, and **Franz Faerber** of Walldorf, Germany, the undersigned, hereinafter referred to as the ASSIGNORS, for good and valuable consideration, the receipt of which is hereby acknowledged, confirm that we have sold and assigned, and do hereby assign, sell and transfer to **SAP AG, a German Corporation**, with offices at Dietmar-Hopp-Allee 16.D-69190, Walldorf, Germany, and to its successors, assigns and legal representatives, collectively hereinafter referred to as the ASSIGNEE: (1) our entire right, title and interest for the United States and in all countries, in and to any and all inventions, discoveries and applications which are disclosed in the application for United States Letters Patent entitled:

### STRING AND SUB-STRING SEARCHING USING INVERTED INDEXES

filed with the U.S. Patent and Trademark Office on June 25, 2013 and assigned Application No. 13/926,917<sup>1</sup>, including any subsequently filed utility applications, which claim priority to Application No. 12/970,780<sup>1</sup>, and including any renewals, revivals, reissues, reexaminations, extensions, continuations and divisions thereof and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of the ASSIGNEE, its designee, or in my/our names as the ASSIGNEE, or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patent which may issue thereon in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

We hereby authorize and request the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

We agree, at any time, upon the request of the ASSIGNEE, to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries, or applications and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

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<sup>1</sup> Any attorney or agent of record and any registered attorney or agent of Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C., One Financial Center, Boston, MA 02111, telephone (617) 542-6000, is hereby authorized to insert, when known.

First Inventor : Frederik Transier et al.  
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We further agree at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do the necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

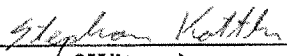
We hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

We further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Date: 14.01.2014   
Signature of: **Frederik Transier**

IN WITNESS WHEREOF, I, Stephan Kottler, hereby declare  
(Printed Name of Witness)


that I was personally present and did see the above named person duly sign and execute the assignment.

  
(Signature of Witness)

Date: 14.01.2014

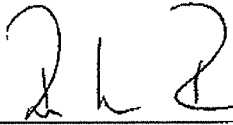
IN WITNESS WHEREOF, I, Kai Stammerjohann, hereby declare  
(Printed Name of Witness)


that I was personally present and did see the above named person duly sign and execute the assignment.

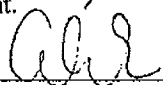
  
(Signature of Witness)

Date: 14.01.2014

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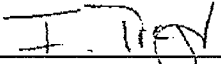
Date: 12.1. 2013   
Signature of: Franz Faerber

IN WITNESS WHEREOF, I, , hereby declare  
(Printed Name of Witness)  
that I was personally present and did see the above named person duly sign and execute the assignment.

  
(Signature of Witness)

Date: 14.01.2013

IN WITNESS WHEREOF, I, Frederik Transier, hereby declare  
(Printed Name of Witness)  
that I was personally present and did see the above named person duly sign and execute the assignment.

  
(Signature of Witness)

Date: \_\_\_\_\_