

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5845085

|   |   |
|---|---|
| <b>SUBMISSION TYPE:</b>   | CORRECTIVE ASSIGNMENT   |
| <b>NATURE OF CONVEYANCE:</b>  | Corrective Assignment to correct the RECEIVING PARTY DATA previously recorded on Reel 042984 Frame 0127. Assignor(s) hereby confirms the RECEIVING PARTY DATA SHOULD BE SHOWN AS: SAP SE, DIETMAR-HOPP-ALLEE 16, WALLDORF, GERMANY D-69190. |
| <b>CONVEYING PARTY DATA</b>   |   |
|   |   |
| <b>Name</b>   | <b>Execution Date</b>   |
| TAL HAVIV   | 07/09/2017  |
| SAAR DAGAN  | 07/09/2017  |
| LIOR LAVI   | 07/09/2017  |
| ETAY ANGREST  | 07/09/2017  |
| NADAV NURI  | 07/09/2017  |
| <b>RECEIVING PARTY DATA</b>   |   |
| <b>Name:</b>  | SAP SE  |
| <b>Street Address:</b>  | DIETMAR-HOPP-ALLEE 16   |
| <b>City:</b>  | WALLDORF  |
| <b>State/Country:</b>   | GERMANY   |
| <b>Postal Code:</b>   | 69190   |
| <b>PROPERTY NUMBERS Total: 1</b>  |   |
|   |   |
| <b>Property Type</b>  | <b>Number</b>   |
| <b>Application Number:</b>  | 15647451  |
| <b>CORRESPONDENCE DATA</b>  |   |
| <b>Fax Number:</b>  | (203)972-7627   |
| <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> |   |
| <b>Phone:</b>   | 203-972-0006  |
| <b>Email:</b>   | venuto@bmtpatent.com, colabella@bmtpatent.com   |
| <b>Correspondent Name:</b>  | BUCKLEY, MASCHOFF & TALWALKAR LLC   |
| <b>Address Line 1:</b>  | 50 LOCUST AVENUE  |
| <b>Address Line 4:</b>  | NEW CANAAN, CONNECTICUT 06840   |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 170316US01 (S23.152)  |
| <b>NAME OF SUBMITTER:</b>   | JESSICA H.L. BABAD  |
| <b>SIGNATURE:</b>   | /Jessica H.L. Babad/  |
| <b>DATE SIGNED:</b>   | 12/02/2019  |

**Total Attachments: 10**

source=170316US01\_S23152\_Corrected Notice of Recordation Document#page1.tif  
source=170316US01\_S23152\_Corrected Notice of Recordation Document#page2.tif  
source=170316US01\_S23152\_Corrected Notice of Recordation Document#page3.tif  
source=170316US01\_S23152\_Corrected Notice of Recordation Document#page4.tif  
source=170316US01\_S23152\_Corrected Notice of Recordation Document#page5.tif  
source=170316US01\_S23152\_Corrected Notice of Recordation Document#page6.tif  
source=170316US01\_S23152\_Corrected Notice of Recordation Document#page7.tif  
source=170316US01\_S23152\_Corrected Notice of Recordation Document#page8.tif  
source=170316US01\_S23152\_Corrected Notice of Recordation Document#page9.tif  
source=170316US01\_S23152\_Corrected Notice of Recordation Document#page10.tif

### RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**

Tal Haviv  
Saar Dagan  
Lior Lavi  
Etay Angrest  
Nadav Nuri

Additional name(s) of conveying party(ies) attached?  Yes  No

**2. Name and address of receiving party(ies)**

Name: SAP SE

Internal Address: \_\_\_\_\_

Street Address: Dietmar-Hopp-Allee 16

City: Walldorf

State: \_\_\_\_\_

Country: DE Zip: D-69190

Additional name(s) & address(es) attached?  Yes  No

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) 07/09/2019

- Assignment  Merger
- Security Agreement  Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other Corrective Assignment - Reel/Frame 042984/0127

**4. Application or patent number(s):**

This document serves as an Oath/Declaration (37 CFR 1.63).

A. Patent Application No.(s)

15/647,451

B. Patent No.(s)

Additional numbers attached?  Yes  No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: Buckley, Maschoff & Talwalkar LLC

Street Address: 50 Locust Avenue

City: New Canaan

State: CT Zip: 06840

Phone Number: 425-882-8080

Docket Number: 170316US01 (\$23.152)

Email Address: venuto@bmtpatent.com, collabella@bmtpatent.com

**6. Total number of applications and patents involved:** \_\_\_\_\_

7. Total fee (37 CFR 1.21(h) & 3.41) \$ \_\_\_\_\_

- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

**8. Payment Information**

Deposit Account Number 50-1852

Authorized UserName Buckley, Machoff & Talwalkar LLC

9. Signature: /Jessica H.L. Babad/

December 2, 2019

Jessica H.L. Babad

Signature

Date

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

**10**

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

**PATENT**

**REEL: 051159 FRAME: 0198**

|                                      |
|--------------------------------------|
| <b>PATENT ASSIGNMENT COVER SHEET</b> |
|--------------------------------------|

Electronic Version v1.1  
 Stylesheet Version v1.2

| <b>SUBMISSION TYPE:</b>  | NEW ASSIGNMENT                            |               |                                |                            |   |                          |               |              |                  |                       |                |                     |               |
|--|---|---------------|--------------------------------|----------------------------|---|--------------------------|---------------|--------------|------------------|-----------------------|----------------|---------------------|---------------|
| <b>NATURE OF CONVEYANCE:</b>   | ASSIGNMENT                                |               |                                |                            |   |                          |               |              |                  |                       |                |                     |               |
| <b>CONVEYING PARTY DATA</b>  |   |               |                                |                            |   |                          |               |              |                  |                       |                |                     |               |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>TAL HAVIV</td> <td>07/09/2017</td> </tr> <tr> <td>SAAR DAGAN</td> <td>07/09/2017</td> </tr> <tr> <td>LIOR LAVI</td> <td>07/09/2017</td> </tr> <tr> <td>ETAY ANGREST</td> <td>07/09/2017</td> </tr> <tr> <td>NADAV NURI</td> <td>07/09/2017</td> </tr> </tbody> </table>  |   | Name          | Execution Date                 | TAL HAVIV                  | 07/09/2017                                | SAAR DAGAN               | 07/09/2017    | LIOR LAVI    | 07/09/2017       | ETAY ANGREST          | 07/09/2017     | NADAV NURI          | 07/09/2017    |
| Name   | Execution Date                            |               |                                |                            |   |                          |               |              |                  |                       |                |                     |               |
| TAL HAVIV  | 07/09/2017                                |               |                                |                            |   |                          |               |              |                  |                       |                |                     |               |
| SAAR DAGAN   | 07/09/2017                                |               |                                |                            |   |                          |               |              |                  |                       |                |                     |               |
| LIOR LAVI  | 07/09/2017                                |               |                                |                            |   |                          |               |              |                  |                       |                |                     |               |
| ETAY ANGREST   | 07/09/2017                                |               |                                |                            |   |                          |               |              |                  |                       |                |                     |               |
| NADAV NURI   | 07/09/2017                                |               |                                |                            |   |                          |               |              |                  |                       |                |                     |               |
| <b>RECEIVING PARTY DATA</b>  |   |               |                                |                            |   |                          |               |              |                  |                       |                |                     |               |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"><b>Name:</b></td> <td>SAP PORTALS ISRAEL LTD. SAP SE</td> </tr> <tr> <td><b>Street Address:</b></td> <td>15 HATIDHAR STREET DIETMAR -HOPP-ALLEE 16</td> </tr> <tr> <td><b>Internal Address:</b></td> <td>P.O. BOX 4077</td> </tr> <tr> <td><b>City:</b></td> <td>RAANANA WALLDORF</td> </tr> <tr> <td><b>State/Country:</b></td> <td>ISRAEL GERMANY</td> </tr> <tr> <td><b>Postal Code:</b></td> <td>43665 D-69190</td> </tr> </table> |   | <b>Name:</b>  | SAP PORTALS ISRAEL LTD. SAP SE | <b>Street Address:</b>     | 15 HATIDHAR STREET DIETMAR -HOPP-ALLEE 16 | <b>Internal Address:</b> | P.O. BOX 4077 | <b>City:</b> | RAANANA WALLDORF | <b>State/Country:</b> | ISRAEL GERMANY | <b>Postal Code:</b> | 43665 D-69190 |
| <b>Name:</b>   | SAP PORTALS ISRAEL LTD. SAP SE            |               |                                |                            |   |                          |               |              |                  |                       |                |                     |               |
| <b>Street Address:</b>   | 15 HATIDHAR STREET DIETMAR -HOPP-ALLEE 16 |               |                                |                            |   |                          |               |              |                  |                       |                |                     |               |
| <b>Internal Address:</b>   | P.O. BOX 4077                             |               |                                |                            |   |                          |               |              |                  |                       |                |                     |               |
| <b>City:</b>   | RAANANA WALLDORF                          |               |                                |                            |   |                          |               |              |                  |                       |                |                     |               |
| <b>State/Country:</b>  | ISRAEL GERMANY                            |               |                                |                            |   |                          |               |              |                  |                       |                |                     |               |
| <b>Postal Code:</b>  | 43665 D-69190                             |               |                                |                            |   |                          |               |              |                  |                       |                |                     |               |
| <b>PROPERTY NUMBERS Total: 1</b>   |   |               |                                |                            |   |                          |               |              |                  |                       |                |                     |               |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td><b>Application Number:</b></td> <td>15647451</td> </tr> </tbody> </table>   |   | Property Type | Number                         | <b>Application Number:</b> | 15647451                                  |                          |               |              |                  |                       |                |                     |               |
| Property Type  | Number                                    |               |                                |                            |   |                          |               |              |                  |                       |                |                     |               |
| <b>Application Number:</b>   | 15647451                                  |               |                                |                            |   |                          |               |              |                  |                       |                |                     |               |
| <b>CORRESPONDENCE DATA</b>   |   |               |                                |                            |   |                          |               |              |                  |                       |                |                     |               |
| <p><b>Fax Number:</b> (203)972-7627<br/> <b>Phone:</b> 203-972-0006<br/> <b>Email:</b> venuto@bmtpatent.com, colabella@bmtpatent.com<br/> <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><br/> <b>Correspondent Name:</b> BUCKLEY, MASCHOFF &amp; TALWALKAR LLC<br/> <b>Address Line 1:</b> 50 LOCUST AVENUE<br/> <b>Address Line 4:</b> NEW CANAAN, CONNECTICUT 06840</p>             |   |               |                                |                            |   |                          |               |              |                  |                       |                |                     |               |
| <b>ATTORNEY DOCKET NUMBER:</b>   | 170316US01 (S23.152)                      |               |                                |                            |   |                          |               |              |                  |                       |                |                     |               |
| <b>NAME OF SUBMITTER:</b>  | JESSICA H.L. BABAD                        |               |                                |                            |   |                          |               |              |                  |                       |                |                     |               |

**PATENT**

|   |            |
|---|------------|
| <b>Signature:</b>   | /JB/       |
| <b>Date:</b>  | 07/12/2017 |
| <b>Total Attachments: 3</b><br>source=170316US01 (S23.152) - Assignment#page1.tif<br>source=170316US01 (S23.152) - Assignment#page2.tif<br>source=170316US01 (S23.152) - Assignment#page3.tif |            |
| <b>RECEIPT INFORMATION</b>  |            |
| <b>EPAS ID:</b>   | PAT4499601 |
| <b>Receipt Date:</b>  | 07/12/2017 |

PATENT

## ASSIGNMENT OF RIGHTS, TITLE AND INTEREST IN INVENTION

This is an Assignment of the following rights, title and interest: *(check all that apply)*

- United States of America rights, title and interest in the invention
- Foreign rights, title and interest in the invention
- The following United States Patent Application

United States Patent Application No.: 15/647,451

which was filed on: July 12, 2017

- United States Provisional Patent Application Serial No.:
- United States Patent No(s).:
- International (PCT) Patent Application Serial No.:
- Other (*specify*):

### TITLE OF THE INVENTION:

**WEB SHARE**

### Inventors (*assignors*)

| Name         | Address   |
|--------------|---|
| Tal Haviv    | SAP Global IP Group, SAP SE, Dietmar-Hopp-Allee 16, D-69190 Walldorf, Germany |
| Saar Dagan   | SAP Global IP Group, SAP SE, Dietmar-Hopp-Allee 16, D-69190 Walldorf, Germany |
| Lior Lavi    | SAP Global IP Group, SAP SE, Dietmar-Hopp-Allee 16, D-69190 Walldorf, Germany |
| Etay Angrest | SAP Global IP Group, SAP SE, Dietmar-Hopp-Allee 16, D-69190 Walldorf, Germany |
| Nadav Nuri   | SAP Global IP Group, SAP SE, Dietmar-Hopp-Allee 16, D-69190 Walldorf, Germany |

Assignee

Name

Address

~~SAP Portals Israel Ltd.~~ ~~15 Hatidhar St., P.O. Box 4077, Ra'anana, Israel 43603~~  
SAP SE Dietmar-Hopp-Allee 16 D-69190 Waldorf, Germany *J.R.* *27/11/19*  
*init* *Date*

Whereas, we, the above-identified Inventors, 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, Jessica H.L. Babad, 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.

Assignee

Name

Address

~~SAP Portals Israel Ltd.~~ ~~15 Hatidhar St., P.O. Box 4077, Ra'anana, Israel 43603~~  
SAP SE Dietmar-Hopp-Allee 16, D-69190 Waldorf, Germany T.H. 27.11.2013  
mit Date

Whereas, we, the above-identified Inventors, 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, Jessica H.L. Babad, 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.



Assignee

| Name   | Address  |
|--|--|
| <del>SAP Portals Israel Ltd.</del><br>SAP SE | <del>15 Hatidhar St., P.O. Box 4077, Ramatana, Israel 43665</del><br>Dietmar-Hopp-Allee 16, D-69190 Waldorf, Germany <i>S.D.</i><br><i>init</i> <i>27.11.2011</i><br><i>Date</i> |

Whereas, we, the above-identified Inventors, 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, Jessica H.L. Babad, 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.

Assignee

Name

Address

~~SAP Portals Israel Ltd.~~ ~~15 Hatidhar St., P.O. Box 4077, Ra'anana, Israel 43665~~  
SAP SE Dietmar-Hopp-Allee 16, D-69190 Waldorf, Germany E.A. 27.11.2019  
init Dak

Whereas, we, the above-identified Inventors, 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, Jessica H.L. Babad, 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.

Assignee

Name

Address

~~SAP Portals Israel Ltd. 15 Hatidhar St., P.O. Box 4077, Ra'anana, Israel 43663~~  
SAP SE Dietmar-Hopp-Allee 16, D-69190 Waldoff, Germany

N.N  
mit 27.11.19  
Date

Whereas, we, the above-identified Inventors, 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, Jessica H.L. Babad, 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.


Inventors' Signatures

Tal Haviv: 


Date: 9/7/2017

Witnessed by: Etay Angrest 

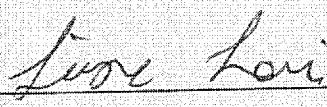
Date: 9/7/2017

Saar Dagan: 


Date: 9/7/2017

Witnessed by: Tal Haviv 

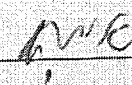
Date: 9/7/2017

Lior Lavi: 


Date: 9/7/2017

Witnessed by: Tal Haviv 

Date: 9/7/2017

Etay Angrest: 


Date: 9/7/2017

Witnessed by: Tal Haviv 

Date: 9/7/2017

Nadav Nuri: 

Date: 9/7/2017

Witnessed by: Tal Haviv 

Date: 9/7/2017