### 504811180 03/08/2018

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4857914

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
GEORGIOS PSAROPOULOS	03/02/2018
THOMAS LEGLER	03/02/2018
NORMAN MAY	03/03/2018
ANASTASIA AILAMAKI	03/01/2018

#### **RECEIVING PARTY DATA**

Name:	SAP SE	
Street Address:	DIETMAR-HOPP-ALLEE 16	
City:	WALLDORF	
State/Country:	GERMANY	
Postal Code:	D-69190	

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15915797

#### **CORRESPONDENCE DATA**

**Fax Number:** (858)314-1501

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.

Email: mscarr@mintz.com

Correspondent Name: MINTZ LEVIN SAN DIEGO / LILY ZHANG

Address Line 1: 3580 CARMEL MOUNTAIN ROAD

Address Line 2: SUITE 300

Address Line 4: SAN DIEGO, CALIFORNIA 92130

ATTORNEY DOCKET NUMBER:	54874-308F01US
NAME OF SUBMITTER:	LI (LILY) ZHANG
SIGNATURE:	/li zhang/
DATE SIGNED:	03/08/2018

#### **Total Attachments: 4**

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PATENT 504811180 REEL: 045148 FRAME: 0039

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#### ASSIGNMENT

For valuable consideration, I, Georgios Psaropoulos,

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:

#### ACCESS PATTERN BASED OPTIMIZATION OF MEMORY ACCESS

which is found in the:

US patent application filed on: March 8, 2018

under Application No. 15/915,797

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 encum brance 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:

Georgios Psaropoulos

Georgios Psaropoulos

3/2/2018

#### **ASSIGNMENT**

For valuable consideration, I, Thomas Legler,

hereby assign to

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Inventor's Signature:

| Thomas Legler | 3/2/2018 | 3820DE031D6B4BE.... | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2/2018 | 3/2

#### **ASSIGNMENT**

For valuable consideration, I, Norman May,

hereby assign to

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#### **ASSIGNMENT**

For valuable consideration, I, Anastasia Ailamaki,

hereby assign to

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