# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
OLIVER HORN	03/29/2019
TILL MERKER	03/29/2019
PAUL WILLEMS	03/29/2019

#### **RECEIVING PARTY DATA**

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

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

Property Type	Number
Application Number:	16375083

#### **CORRESPONDENCE DATA**

**Fax Number:** (212)983-3115

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.

**Phone:** 2129353000

**Email:** ipdocketingbos@mintz.com

Correspondent Name: MINTZ LEVIN COHN FERRIS GLOVSKY AND POPEO PC

Address Line 1: 666 THIRD AVENUE, 24TH FL.

Address Line 4: NEW YORK, NEW YORK 10017

ATTORNEY DOCKET NUMBER:	54874-470F01US/190338US01	
NAME OF SUBMITTER:	BORIS A. MATVENKO	
SIGNATURE:	/Boris A. Matvenko/	
DATE SIGNED:	04/04/2019	

## **Total Attachments: 3**

source=SAP 190338US01 (054874-470F01US) Executed Assignment as Filed 04.04.2019#page1.tif source=SAP 190338US01 (054874-470F01US) Executed Assignment as Filed 04.04.2019#page2.tif source=SAP 190338US01 (054874-470F01US) Executed Assignment as Filed 04.04.2019#page3.tif

PATENT 505412019 REEL: 048797 FRAME: 0307

Attorney Dkt. No. 054874-470F01US/ 190338US01

### ASSIGNMENT

For valuable consideration, I, Oliver Horn,

hereby assign to

# SAPSE, 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:

#### EVALUATION OF DUPLICATED FILTER PREDICATES

which is found in the:

USpatent application filed on: April 4, 2019

under Application No. 16/375,083

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. Thereby covenant that no assignment, sale, agreement or encumbrance 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:

Oliver Horn

3/29/2019

Oliver Horn

PATENT REEL: 048797 FRAME: 0308 Attorney Dkt. No. 054874-470F01US/ 190338US01

### ASSIGNMENT

For valuable consideration, I, Till Merker,

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Inventor's Sgnature:

| Till Merker | 3/29/2019 | Till Merker | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/

PATENT REEL: 048797 FRAME: 0309 Attorney Dkt. No. 054874-470F01US/ 190338US01

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Inventor's Signature:

| Paul Willems | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/

PATENT REEL: 048797 FRAME: 0310