

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SAP SE	02/04/2021
RECEIVING PARTY DATA	
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PROPERTY NUMBERS Total: 3	
Property Type	Number
Patent Number:	6691101
Patent Number:	7831772
Application Number:	60300234
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NAME OF SUBMITTER:	JAMES CZAJA
SIGNATURE:	/James Czaja/
DATE SIGNED:	02/04/2021
Total Attachments: 2	
source=Assignment SAP SE to SAP America.DOCX#page1.tif	
source=Assignment SAP SE to SAP America.DOCX#page2.tif	

PATENT ASSIGNMENT

WHEREAS, **SAP SE**, a European company, located at Dietmar-Hopp-Allee 16, 69190 Walldorf, Germany, is the current assignee of record of the following patents and patent applications (hereinafter referred to as the "Patents"):

- **U.S. Patent No. 6,691,101** entitled "DATABASE SYSTEM PROVIDING OPTIMIZATION OF GROUP BY OPERATOR OVER A UNION ALL" with a filing date of February 4th, 2002 and a grant date of February 10, 2004;
- **U.S. Patent Application No. 60/300,234** entitled "DATABASE SYSTEM PROVIDING OPTIMIZATION OF GROUP BY OPERATOR OVER A UNION ALL" with a filing date of June 21, 2001;
- **U.S. Patent No. 7,831,772** entitled "SYSTEM AND METHODOLOGY PROVIDING MULTIPLE HETEROGENEOUS BUFFER CACHES" with a filing date of December 12, 2006.

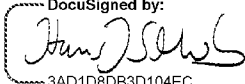
WHEREAS, **SAP America, Inc.**, a Delaware company, located at 3999 West Chester Pike, Newtown Square, PA (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring all right, title, and interest in, to and under the Patents.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR, ASSIGNOR hereby assigns to ASSIGNEE all right, title and interest, including all rights of action and damages for past infringement, such as the right to sue and collect for past damages, in and to the Patents, and any patents that may issue therefrom (including any foreign counterparts, divisions, continuations, renewals, continuations in part, reexaminations or reissues thereof), the same to be held by ASSIGNEE for ASSIGNEE's own use and enjoyment, and for the use and enjoyment of ASSIGNEE's successors, assigns, and other legal representatives, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR if this Assignment had not been made for the full term of the Patents and any other patents or similar legal protection arising therefrom, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof. ASSIGNOR does not retain any right to any recoveries for infringement or to sue in its own name with regard to the Patents.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States to issue the same to ASSIGNEE and its successors, assigns, and other legal representatives in accordance with the terms of this instrument.

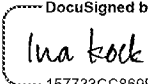
IN WITNESS WHEREOF, ASSIGNOR has caused this Patent Assignment to be executed and delivered as of **February 4, 2021**.

SAP, SE

By:  DocuSigned by:
3AD1D8DB3D104EC

Name: Hans Jakob Schwab

Title: SAP Senior IP Attorney

By:  DocuSigned by:
157733CC869B498...

Name: Ina Kock

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