502531537 10/14/2013

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2576831

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
THOMAS JOSEPH	07/30/2013
JITENDRA BHIMAVARAPU	08/01/2013
MATTHIAS VON RUEDEN	08/01/2013

RECEIVING PARTY DATA

Name:	BANK OF AMERICA CORPORATION	
Street Address:	HEARST TOWER	
Internal Address:	NC1-027-20-05, 214 N. TRYON STREET	
City:	CHARLOTTE	
State/Country:	NORTH CAROLINA	
Postal Code:	28255	

PROPERTY NUMBERS Total: 1

Property Type	Number
Patent Number:	8225375

CORRESPONDENCE DATA

Fax Number: (312)463-5001 Phone: 312-463-5000

Email: aonoda@bannerwitcoff.com, BWPTOPAT@bannerwitcoff.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

Correspondent Name: BANNER & WITCOFF, LTD. Address Line 1: TEN SOUTH WACKER DRIVE

Address Line 2: **SUITE 3000**

Address Line 4: CHICAGO, ILLINOIS 60606

ATTORNEY DOCKET NUMBER:	007131.00650-ADD'TL INVTR
NAME OF SUBMITTER:	KENNETH F. SMOLIK

REEL: 031400 FRAME: 0994

PATENT

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Signature:	/Kenneth F. Smolik/
Date:	10/14/2013
Total Attachments: 3 source=Assignment650#page1.tif source=Assignment650#page2.tif source=Assignment650#page3.tif	

PATENT REEL: 031400 FRAME: 0995

WHEREAS, I, Thomas Joseph, ("Assignor"), a citizen of United States, residing it
Aurora, Illinois, have invented certain new and useful inventions entitled "Content Service
Bus Framework". If the following lines are blank, the above application was filed on eve
date herewith, otherwise, to comply with 37 C.F.R. §3.21 for recordal of this assignment,
an assignor below, hereby authorize my attorney to insert the filing date and applicatio
number below after they become known and prior to filing the recordation.
U.S. Application No. 12/710.712 filed 02/23/2010

WHEREAS, BANK OF AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of the State of Delaware, and having its offices and place of business at Charlotte, North Carolina, is desirous of acquiring the entire right, title and interest in and to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the United States of America, and in any and all countries foreign thereto:

NOW. THEREFORE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt and sufficiency of which is hereby acknowledged, I said Assignor, by these presents do sell, assign and transfer unto said Assignee, its successors, assigns and legal representatives, the full and exclusive right, title and interest for the territory of the United States of America and all countries foreign thereto, and throughout the world and in space, (including the right to apply for Letters Patent in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), in and to said inventions and in and to all applications and Letters Patent granted therefor, and all divisions, reissues, continuations and extensions thereof, and in and to all copyrights. trademarks with their associated goodwill, trade secrets, confidential information, and compilations, necessary or useful to make, use, or sell the inventions. I hereby authorize and request the Commissioner of Patents, and any official whose duty it is to issue patents, to issue all Letters Patent on said inventions or resulting therefrom to said Assignee, or its successors and assigns, as assignee of the entire right, title and interest. I represent and warrant that I have full right to agree to, execute, and deliver this assignment. I agree that I will without further consideration, but at the expense of Assignee, communicate to said Assignee, or its successors, assigns, or nominees, any and all facts known to me regarding said inventions whenever requested, and that I will execute all non-provisional, divisional, reissue, continuation and continuation-in-part applications, testify in any legal proceedings. sign all lawful papers, make all rightful oaths, and generally do everything reasonable for said Assignee, its successors, assigns, and nominees, to obtain and enforce proper patent protection for said inventions in all countries.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 30 day of July, 2013.

Thomas Joseph, Assignor

PATENT REEL: 031400 FRAME: 0996

ASSIGNMENT

WHEREAS, I, Jitendra Bhimavarapu, ("Assignor"), a citizen of India, residing in Chicago, Illinois, have invented certain new and useful inventions entitled "Content Service Bus Framework". If the following lines are blank, the above application was filed on even date herewith, otherwise, to comply with 37 C.F.R. §3.21 for recordal of this assignment, I, an assignor below, hereby authorize my attorney to insert the filing date and application number below after they become known and prior to filing the recordation.

U.S. Application No. 12/710.712 filed 02/23/2010 ...

WHEREAS, BANK OF AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of the State of Delaware, and having its offices and place of business at Charlotte, North Carolina, is desirous of acquiring the entire right, title and interest in and to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the United States of America, and in any and all countries foreign thereto:

NOW, THEREFORE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt and sufficiency of which is hereby acknowledged, I said Assignor, by these presents do sell, assign and transfer unto said Assignee, its successors, assigns and legal representatives, the full and exclusive right, title and interest for the territory of the United States of America and all countries foreign thereto, and throughout the world and in space, (including the right to apply for Letters Patent in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), in and to said inventions and in and to all applications and Letters Patent granted therefor, and all divisions, reissues, continuations and extensions thereof, and in and to all copyrights, trademarks with their associated goodwill, trade secrets, confidential information, and compilations, necessary or useful to make, use, or sell the inventions. I hereby authorize and request the Commissioner of Patents, and any official whose duty it is to issue patents, to issue all Letters Patent on said inventions or resulting therefrom to said Assignee, or its successors and assigns, as assignee of the entire right, title and interest. I represent and warrant that I have full right to agree to, execute, and deliver this assignment. I agree that I will without further consideration, but at the expense of Assignee, communicate to said Assignee, or its successors, assigns, or nominees, any and all facts known to me regarding said inventions whenever requested, and that I will execute all non-provisional, divisional, reissue, continuation and continuation-in-part applications, testify in any legal proceedings, sign all lawful papers, make all rightful oaths, and generally do everything reasonable for said Assignee, its successors, assigns, and nominees, to obtain and enforce proper patent protection for said inventions in all countries.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this _____ day of _____.

Jitendra Bhimavarapu Assignor

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ASSIGNMENT

WHEREAS, I, Matthias Von Rueden, ("Assignor"), a citizen of Germany, residing
in Chicago, Illinois, have invented certain new and useful inventions entitled "Content
Service Bus Framework". If the following lines are blank, the above application was filed
on even date herewith, otherwise, to comply with 37 C.F.R. §3.21 for recordal of this
assignment, I, an assignor below, hereby authorize my attorney to insert the filing date and
application number below after they become known and prior to filing the recordation.
U.S. Application No. <u>12/710,712</u> filed <u>02/23/2010</u> filed <u>02/23/2010</u>

WHEREAS, BANK OF AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of the State of Delaware, and having its offices and place of business at Charlotte, North Carolina, is desirous of acquiring the entire right, title and interest in and to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the United States of America, and in any and all countries foreign thereto:

NOW, THEREFORE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt and sufficiency of which is hereby acknowledged, I said Assignor, by these presents do sell, assign and transfer unto said Assignee, its successors, assigns and legal representatives, the full and exclusive right, title and interest for the territory of the United States of America and all countries foreign thereto, and throughout the world and in space, (including the right to apply for Letters Patent in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), in and to said inventions and in and to all applications and Letters Patent granted therefor, and all divisions, reissues, continuations and extensions thereof, and in and to all copyrights, trademarks with their associated goodwill, trade secrets, confidential information, and compilations, necessary or useful to make, use, or sell the inventions. I hereby authorize and request the Commissioner of Patents, and any official whose duty it is to issue patents, to issue all Letters Patent on said inventions or resulting therefrom to said Assignee, or its successors and assigns, as assignee of the entire right, title and interest. I represent and warrant that I have full right to agree to, execute, and deliver this assignment. I agree that I will without further consideration, but at the expense of Assignee, communicate to said Assignee, or its successors, assigns, or nominees, any and all facts known to me regarding said inventions whenever requested, and that I will execute all non-provisional, divisional, reissue, continuation and continuation-in-part applications, testify in any legal proceedings. sign all lawful papers, make all rightful oaths, and generally do everything reasonable for said Assignee, its successors, assigns, and nominees, to obtain and enforce proper patent protection for said inventions in all countries.

Matthias Von Rueden, Assignor

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