

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6022225

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the ERRONEOUSLY LISTED PATENT ON THE SCHEDULE A. PATENT NUMBER 7,792,767 WAS REMOVED FROM THE SCHEDULE A previously recorded on Reel 051170 Frame 0255. Assignor(s) hereby confirms the PATENT NUMBER 7,792,767 WAS ERRONEOUSLY LISTED ON THE SCHEDULE A.

CONVEYING PARTY DATA

Name	Execution Date
IBM INTERNATIONAL GROUP B.V.	11/06/2019

RECEIVING PARTY DATA

Name:	IBM INTERNATIONAL C.V.
Street Address:	JOHAN HUIZINGALAAN 735
City:	AMSTERDAM
State/Country:	NETHERLANDS
Postal Code:	1066 VH

PROPERTY NUMBERS Total: 60

Property Type	Number
Patent Number:	9165152
Patent Number:	7979565
Patent Number:	8676657
Patent Number:	9923990
Patent Number:	8990410
Patent Number:	9003064
Patent Number:	9691038
Patent Number:	8302861
Patent Number:	7900153
Patent Number:	8203452
Patent Number:	8903949
Patent Number:	7900249
Patent Number:	8621594
Patent Number:	8131776
Patent Number:	5734820
Patent Number:	5771343
Patent Number:	5664185
Patent Number:	5928333

PATENT

Property Type	Number
Patent Number:	5632011
Patent Number:	5870542
Patent Number:	5893076
Patent Number:	5758126
Patent Number:	5794206
Patent Number:	7171650
Patent Number:	7480938
Patent Number:	6981278
Patent Number:	7061900
Patent Number:	6259700
Patent Number:	8565424
Patent Number:	7992194
Patent Number:	7958250
Patent Number:	7551082
Patent Number:	8214421
Patent Number:	7444505
Patent Number:	7958550
Patent Number:	6938014
Patent Number:	7054880
Patent Number:	7461084
Patent Number:	7725819
Patent Number:	9846693
Patent Number:	9954747
Application Number:	12249307
Application Number:	12758558
Application Number:	11668939
Application Number:	11777075
Application Number:	12848899
Application Number:	12121597
Application Number:	12334277
Application Number:	12341078
Application Number:	12341164
Application Number:	12327625
Application Number:	12415709
Application Number:	12274254
Application Number:	12550008
Application Number:	12702528
Application Number:	11422919

Property Type	Number
Application Number:	09561360
Application Number:	10132985
Application Number:	11855478
Application Number:	11764655

CORRESPONDENCE DATA

Fax Number:

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.

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ATTORNEY DOCKET NUMBER:	CORRECTIVE ASSIGNMENT 1
NAME OF SUBMITTER:	JENNIFER L. SMITH
SIGNATURE:	/JENNIFER L. SMITH/
DATE SIGNED:	03/19/2020

Total Attachments: 9

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PATENT ASSIGNMENT COVER SHEETElectronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5847301

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
IBM INTERNATIONAL GROUP B.V.		11/06/2019
RECEIVING PARTY DATA		
Name:	IBM INTERNATIONAL C.V.	
Street Address:	JOHAN HUIZINGALAAN 765	
City:	AMSTERDAM	
State/Country:	NETHERLANDS	
Postal Code:	1066 VH	
PROPERTY NUMBERS Total: 61		
Property Type	Number	
Patent Number:	9165152	
Patent Number:	7979565	
Patent Number:	8676657	
Patent Number:	9923990	
Patent Number:	8990410	
Patent Number:	9003064	
Patent Number:	9691038	
Patent Number:	8302861	
Patent Number:	7900153	
Patent Number:	8203452	
Patent Number:	8903949	
Patent Number:	7900249	
Patent Number:	8621594	
Patent Number:	8131776	
Patent Number:	[REDACTED]	
Patent Number:	5734820	
Patent Number:	5771343	
Patent Number:	5664185	
Patent Number:	5928333	
Patent Number:	5632011	

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PATENT
REEL: 051170 FRAME: 0255PATENT
REEL: 052190 FRAME: 0397

Property Type	Number
Patent Number:	5870542
Patent Number:	5893076
Patent Number:	5758126
Patent Number:	5794206
Patent Number:	7171650
Patent Number:	7480938
Patent Number:	6981278
Patent Number:	7061900
Patent Number:	6259700
Patent Number:	8565424
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Patent Number:	6938014
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Patent Number:	7461084
Patent Number:	7725819
Patent Number:	9846693
Patent Number:	9954747
Application Number:	12249307
Application Number:	12758558
Application Number:	11668939
Application Number:	11777075
Application Number:	12848899
Application Number:	12121597
Application Number:	12334277
Application Number:	12341078
Application Number:	12341164
Application Number:	12327625
Application Number:	12415709
Application Number:	12274254
Application Number:	12550008
Application Number:	12702528
Application Number:	11422919
Application Number:	09561360

PATENT

REEL: 051170 FRAME: 0256

PATENT

REEL: 052190 FRAME: 0398

Property Type	Number
Application Number:	10132985
Application Number:	11855478
Application Number:	11764655

CORRESPONDENCE DATA

Fax Number:
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.

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NAME OF SUBMITTER:	JENNIFER L. SMITH
SIGNATURE:	/JENNIFER L. SMITH/
DATE SIGNED:	12/03/2019

Total Attachments: 6

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PATENT
REEL: 051170 FRAME: 0257

PATENT
REEL: 052190 FRAME: 0399

PATENT ASSIGNMENT

WHEREAS, IBM International Group B.V., a Dutch private limited liability company (referred to as "Company"), whose full post office address is Johan Huizingalaan 765, 1066 VH Amsterdam, the Netherlands, has ownership of the patent applications listed on Schedule A hereto, all patents which may issue therefrom, and all divisionals, reissues, substitutions, continuations, re-examinations and extensions thereof which may be pending in or granted by any patent office or forum throughout the world (referred to as the "Patents") and whereas Company owns all inventions disclosed and claimed in the Patents ("Inventions");

WHEREAS, IBM International C.V., a Dutch Limited Partnership (referred to as "IBM C.V."), whose full post office address is Johan Huizingalaan 765, 1066 VH Amsterdam, the Netherlands, desires to acquire the entire right, title and interest in and to the Inventions and Patents; and

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, Company hereby transfers and assigns to IBM C.V. free and clear of all liens or other encumbrances, and IBM C.V. hereby accepts the transfer and assignment of, the entire right, title, and interest of Company in and to the Patents and Inventions, and all rights of priority resulting from the filing of the Patents; and Company hereby authorizes and requests the Commissioner of Patents and any other relevant authority to issue all patents related to the Patents to IBM C.V. as assignee of Company's entire right, title and interest therein.

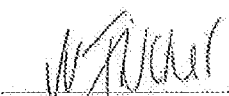
Company also hereby transfers and assigns to IBM C.V., and IBM C.V. hereby accepts the transfer and assignment of, any foreign rights to the Inventions and Patents, in all countries of the world, including the right to file applications, prosecute, and obtain patents under any treaty including the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, and of the European Patent Convention. Company agrees that this executed document is recordable evidence of such transfer and assignment and further agrees to perform at IBM C.V.'s expense, upon reasonable notice, such lawful acts and to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such foreign patent rights.

Upon the written request of IBM C.V., Company hereby further agrees that Company will sign all lawful papers, execute all divisional, continuation, reissue, re-examination, and substitute applications, make all lawful oaths, and provide reasonable assistance to aid IBM C.V., its successors, assigns and nominees to facilitate the prosecution and maintenance of the Patents in all countries of the world.

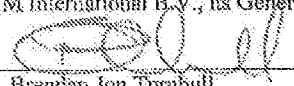
This transfer and assignment is effective as of January 24, 2018.

IN WITNESS WHEREOF, the parties hereto have executed this Patent Assignment by its respective duly authorized officer in their respective corporate names.

IBM International Group B.V. IBM International C.V.

By: 
By: Nadine Fischer
Title: Director

By: IBM International B.V., its General Partner

By: 
By: Brandon Jon Turnbull
Title: Director

Date: November 6, 2019

Date: November 6, 2019

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PATENT
REEL: 051170 FRAME: 0258

PATENT
REEL: 052190 FRAME: 0400

Schedule A

Patent Number	Issue Date	Application No.	Filing Date	Title	Country
9165152	10/20/2015	14/026428	9/13/2013	Secure Non-Invasive Method and System for Distribution of Digital Assets	US
7979565	7/12/2011	12/199202	8/27/2008	Method and System to Provide a Network Service	US
8676657	3/18/2014	12/334237	12/12/2008	Automated Service and Support Notices Using Electronic Shopping Lists	US
9923990	3/20/2018	12/403398	3/13/2009	User Information Widgets and Methods for Updating and Retrieving User Information	US
8990410	3/24/2015	12/332418	12/11/2008	Devices, Systems, and/or Methods for Processing Transactions	US
9003064	4/7/2015	12/878879	9/9/2010	Management of B2B Communities	US
9691038	6/27/2017	11/556397	11/3/2006	Method and Apparatus for Examining Workflow Processes	US
8302861	11/6/2012	11/752140	5/27/2007	System and Method for Maintaining Inventory Management Records Based on Demand	US
7900153	3/1/2011	11/764669	6/18/2007	Supply Chain Visualization and Management System with Dynamic Zooming	US
8203452	6/18/2012	12/469185	5/20/2009	Intelligent RFID Information Management System	US
8903949	12/2/2014	11/116032	4/27/2005	Systems and Methods of	US

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PATENT
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PATENT
REEL: 052190 FRAME: 0401

Patent Number	Issue Date	Application No.	Filing Date	Title	Country
				Specifying Service Level Criteria	
7900249	3/1/2011	12/256999	10/23/2008	Method, System and Software for Maintaining Network Access and Security	US
8621594	12/31/2013	13/100788	5/4/2011	System and Method for Secure Communication	US
8131776	3/6/2012	12/651184	12/31/2009	Automated Migration of Translation Maps for Use in Exchanging Documents Between Entities	US
[REDACTED]					
5734820	3/31/1998	08/647425	3/11/1996	Security Apparatus and Method for a Data Communications System	US
5771343	6/23/1998	08/600013	2/14/1996	System and Method for Failure Detection and Recovery	US
5664185	9/2/1997	08/446330	5/22/1995	Nameserver Administration System and Method	US
5928333	7/27/1999	08/839821	5/19/1997	Electronic Mail Management System for Operation on a Host Computer System	US
5632011	5/20/1997	08/445855	5/22/1995	Electronic Mail Management System for Operation on a Host Computer System	US
5870542	2/9/1999	08/580136	12/28/1995	Security Apparatus and Method for a Data Processing System	US

Patent Number	Issue Date	Application No.	Filing Date	Title	Country
5893076	4/6/1999	08/586385	1/16/1996	Supplier Driven Commerce Transaction Processing System and Methodology	US
5758126	5/26/1998	08/616910	3/19/1996	Customizable Bidirectional BDI Translation System	US
5794206	8/11/1998	08/643622	5/6/1996	Method and System for Displaying Electronic Data Interchanges in a Computer	US
7171650	1/30/2007	10/226863	8/23/2002	System and Method for Integrating Resources in a Network	US
7480938	1/20/2009	11/317323	12/22/2005	System and Method for Secure Dual Channel Communication Through a Firewall	US
6981278	12/27/2005	09/655256	9/5/2000	System and Method for Secure Dual Channel Communication Through a Firewall	US
7061900	6/13/2006	09/901402	7/9/2001	Electronic Commerce Distributed Network and Method	US
6259700	7/10/2001	08/884882	6/30/1997	Electronic Commerce Distributed Network and Method	US
8565424	10/22/2013	11/403078	4/12/2006	Secure Non-Invasive Method and System for Distribution of Digital Assets	US
7992194	8/2/2011	11/374721	3/14/2006	Methods and Apparatus for Identity and Role Management in	US

Patent Number	Issue Date	Application No.	Filing Date	Title	Country
				Communication Networks	
7958250	6/7/2011	10/984538	11/9/2004	System and Method for Multi-Level Guided Node and Topology Discovery	US
7551082	6/23/2009	11/026531	12/30/2004	Intelligent RFID Information Management System	US
8214421	7/3/2012	10/174520	6/17/2002	Conformance Testing Without Reference Implementation of an XML Standard	US
7444505	10/28/2008	10/829702	4/22/2004	Method, System and Software for Maintaining Network Access and Security	US
7958550	6/7/2011	10/040573	11/2/2001	Method and System for Secure Communication	US
6938014	8/30/2005	10/052176	1/16/2002	Non-Repudiable Translation of Electronic Documents	US
7054880	5/30/2006	10/133920	4/26/2002	System and Method for Creating Electronic Marketplaces	US
7461084	12/2/2008	11/278486	4/3/2006	Registry/Repository Based Private Market Generator	US
7725819	5/25/2010	11/213101	3/26/2005	Non-Repudiable Translation of Electronic Documents	US
9846693	12/19/2017	12/842284	7/23/2010	Document Tracking in Heterogeneous Application Environments	US
9954747	4/24/2018	14/533372	11/5/2014	Systems and Methods of Specifying Service Level Criteria	US

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PATENT
REEL: 051170 FRAME: 0262

PATENT
REEL: 052190 FRAME: 0404

Patent Applications			
Application No.	Filing Date	Title	Country
12/249307	10/10/2008	System and Method for Secure Dual Channel Communication Through a Firewall	US
12/758558	4/12/2010	Non-Repudiable Translation of Electronic Documents	US
11/668939	1/30/2007	System and Method for Integrating Resources in a Network	US
11/777075	7/12/2007	System and Method for Providing Application, Service, or Data Via a Network Appliance	US
12/848899	8/2/2010	Message Routing Using Cyclical Neural Networks	US
12/121597	5/15/2008	Real-Time Help for Web Applications	US
12/334277	12/12/2008	Incentive Based Marketing Through Social Networks	US
12/341078	12/22/2008	Anticipatory Inventory Management Via Electronic Shopping Lists	US
12/341164	12/22/2008	Planogram Guided Shopping	US
12/327625	12/3/2008	Method and System for Locating Consumers in a Retail Establishment	US
12/415709	3/31/2009	Creating Electronic Data Interchange Relationships	US
12/274254	11/19/2008	Automatic Generation of Document Translation Maps	US
12/550008	8/28/2009	Electronic Shopping Assistant with Subvocal Capability	US
12/702528	2/9/2010	Consumer-Oriented Commerce Facilitation Services, Applications, and Devices	US
11/422919	6/8/2006	Electronic Commerce Distributed Network and Method	US
09/561360	4/28/2000	Real-Time Transaction Management System	US
10/132985	4/26/2002	System and Method for Selecting Trading Partners in an Electronic Market	US
11/855478	9/14/2007	Intelligent RFID Information Management System	US
11/764655	6/18/2007	Openly Accessible Inventory Management System and Method	US

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RECORDED: 12/03/2019

PATENT
REEL: 051170 FRAME: 0263

RECORDED: 03/19/2020

PATENT
REEL: 052190 FRAME: 0405