

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4027302

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	INTERNATIONAL BUSINESS MACHINES CORPORATION	09/26/2014
RECEIVING PARTY DATA		
Name:	LENOVO ENTERPRISE SOLUTIONS (SINGAPORE) PTE. LTD.	
Street Address:	151, LORONG CHUAN, #02-07	
City:	NEW TECH PARK	
State/Country:	SINGAPORE	
Postal Code:	556741	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	14983097
CORRESPONDENCE DATA		
Fax Number:	(206)774-2781	
<i>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.</i>		
Email:	brenda@dryjapat.com	
Correspondent Name:	LAW OFFICES (LENOVO)	
Address Line 1:	24 ROY ST., #447	
Address Line 4:	SEATTLE, WASHINGTON 98109	
ATTORNEY DOCKET NUMBER:	XGB920130020-US-CNT	
NAME OF SUBMITTER:	BRENDA L. THOM	
SIGNATURE:	/Brenda L. Thom/	
DATE SIGNED:	08/29/2016	
Total Attachments: 10		
source=SPAA Assignment for Pending US Applications_20140926#page1.tif		
source=SPAA Assignment for Pending US Applications_20140926#page2.tif		
source=SPAA Assignment for Pending US Applications_20140926#page3.tif		
source=SPAA Assignment for Pending US Applications_20140926#page4.tif		
source=SPAA Assignment for Pending US Applications_20140926#page5.tif		
source=SPAA Assignment for Pending US Applications_20140926#page6.tif		
source=SPAA Assignment for Pending US Applications_20140926#page7.tif		

source=SPAA Assignment for Pending US Applications_20140926#page8.tif
source=SPAA Assignment for Pending US Applications_20140926#page9.tif
source=SPAA Assignment for Pending US Applications_20140926#page10.tif

Form of Recordable Patent Assignment

For good and valuable consideration, the receipt of which is hereby acknowledged, and subject to the terms stated in the Supplemental Patent Assignment Agreement Reference No. L148032 between the parties with an effective time and date of 11:59 p.m. United States Eastern Time on October 1, 2014 ("Effective Time and Date") ("Patent Assignment Agreement"), International Business Machines Corporation, a New York corporation having a place of business at 1 New Orchard Rd, Armonk, New York, (hereinafter "ASSIGNOR"), hereby sells, transfers and assigns to Lenovo Enterprise Solutions (Singapore) Pte. Ltd., a Singapore corporation having a place of business at 151 Lorong Chuan #02-01, New Tech Park, Singapore 556741, (hereinafter "ASSIGNEE"), all of ASSIGNOR's right, title and interest in and to the United States patent applications identified in Exhibit C attached hereto, including the inventions claimed therein, (hereinafter, "SUPPLEMENTAL PATENT APPLICATIONS"), to have and to hold the same, unto ASSIGNEE for its own use and enjoyment and for the use and enjoyment of its successors and assigns, together with: (i) the right to sue for injunctive relief, damages and any other legal and equitable remedies in respect of all causes of action relating to the SUPPLEMENTAL PATENT APPLICATIONS arising before, on or after the Effective Time & Date, and any claims for past, present or future infringement of any of the SUPPLEMENTAL PATENT APPLICATIONS; and (ii) the right to pursue and obtain in its own name patent protection under the SUPPLEMENTAL PATENT APPLICATIONS, and to prosecute, make filings with respect to, defend and maintain the SUPPLEMENTAL PATENT APPLICATIONS; in each case for the full term or terms of all such SUPPLEMENTAL PATENT APPLICATIONS, subject to all rights and licenses of ASSIGNOR, its Subsidiaries and third parties as set forth in the Patent Assignment Agreement.

ASSIGNOR hereby requests the Commissioner of Patents and Trademarks in the United States Patent and Trademark Office to record ASSIGNEE as the assignee and owner of the SUPPLEMENTAL PATENT APPLICATIONS and to deliver to ASSIGNEE, and to ASSIGNEE's attorneys, agents, successors or assigns, all official documents and communications as may be warranted by this Patent Assignment.

IN WITNESS WHEREOF, ASSIGNOR has caused this Patent Assignment to be duly signed on its behalf.

ASSIGNOR: INTERNATIONAL BUSINESS MACHINES CORPORATION

Signature: _____

Date: _____

Name: Robert D. Belden, Jr.

Title: Vice President, Business Development

State of New York)
) S.S.
County of New York)

Before me this 26 day of September, 2014, personally appeared
Robert D. Belden Jr., to me known to be the person who is described in and who
signed the foregoing Assignment and acknowledged to me that he/she signed the same of his/her
own free will for the purpose therein expressed.

Christian D. Roccotagliata Notary Public

CHRISTIAN D. ROCCOTAGLIATA
Notary Public, State of New York
No. 01RO6310567
Qualified in Nassau County
Commission Expires Aug. 25, 2018

EXHIBIT C**ASSIGNED PATENT APPLICATIONS****US Assigned Patent Applications**

Country	IBM Docket Number	Application Serial Number	Filing Date
US	AUS920090087US2	13/593672	08/24/12
US	SJO920080111US2	13/556521	07/24/12

Inactive Applications

Country	IBM Docket Number	Application Serial Number	Filing Date
CN	POU920050161CN1	200610319290.3	09/21/06
CN	YOR920040487CN1	200680005147.3	01/30/06
EP	AUS920050369EP1	07704191.1	01/29/07
EP	POU920050113EP1	06806978.0	10/04/06
EP	ROC920030100EP1	04727592.0	04/15/04
EP	SJO920050050EP1	06792645.1	08/02/06
EP	YOR920040487EP1	06707891.5	01/30/06
HK	AUS920030078HK1	05103950.7	07/23/04
IN	RPS920020039IN1	3346/DELNP/2004	05/16/03
JP	AUS920010312JP1	2005-064286	03/08/05
JP	AUS920020199JP1	2004-131814	04/27/04
JP	POU920070198JP1	2008-245676	09/25/08
JP	RAL920000060JP1	2001-195009	06/27/01
KR	AUS920020199KR1	2004-0020739	03/26/04
KR	POU920080180KR1	2009-0071361	08/03/09
KR	POU920080183KR1	2009-0074726	08/13/09
KR	POU920080185KR1	2009-0097784	10/14/09
MY	AUS920020198MY1	PI20041379	04/15/04
PCT	AUS920010312PCT1	GB02/003918	08/23/02
PCT	AUS920040504PCT1	EP2005/052937	06/23/05
PCT	AUS920050369PCT1	EP2007/050836	01/29/07
PCT	POU920040172PCT1	EP2005/056581	12/07/05
PCT	POU920050113PCT1	EP2006/067044	10/04/06
PCT	POU920070179PCT1	EP2008/066167	11/25/08
PCT	POU920080182PCT1	EP2009/060792	08/20/09
PCT	POU920090021PCT1	EP2010/056452	05/11/10
PCT	ROC920030100PCT1	GB2004/001624	04/15/04
PCT	ROC920050187PCT1	EP2006/067511	10/17/06
PCT	RPS920020039PCT1	GB03/002125	05/16/03
PCT	RPS920020164PCT1	GB03/004650	10/27/03
PCT	RPS920090062PCT1	EP2010/061680	08/11/10
PCT	SJO920050050PCT1	EP2006/064955	08/02/06

PCT	SJO920060128PCT1	EP2008/053715	03/28/08
PCT	YOR920040487PCT1	EP2006/050512	01/30/06
SG	RPS920020039SG1	200407230-2	05/16/03
TH	AUS920020198TH1	089668	03/24/04
TW	AUS920050365TW1	96100408	01/05/07
TW	AUS920050369TW1	96104141	02/05/07
TW	POU920080182TW1	98130565	09/10/09
TW	ROC920050114TW1	95144994	12/04/06
TW	YOR920040487TW1	95104100	02/07/06
US	AUS920020199US1	10/424254	04/28/03
US	POU920070005US2	12/174826	07/17/08
US	RPS920040133US1	10/970173	10/21/04

ALLOCATED DOCKETS

US Assigned Patent Applications

Country	IBM Docket Number	Application Serial Number	Filing Date
US	AUS920110483US1	13/722754	12/20/12
US	AUS920110483US2	14/166158	01/28/14
US	AUS920120079US1	13/613217	09/13/12
US	AUS920120079US2	13/765737	02/13/13
US	AUS920120083US2	13/778827	02/27/13
US	AUS920120173US1	13/620416	09/14/12
US	AUS920120256US1	13/620433	09/14/12
US	AUS920120287US1	13/758140	02/04/13
US	AUS920120289US1	13/673567	11/09/12
US	AUS920120289US2	13/777926	02/26/13
US	AUS920120292US1	13/668704	11/05/12
US	AUS920120294US1	13/669536	11/06/12
US	AUS920120296US1	13/675591	11/13/12
US	AUS920120296US2	14/176196	02/10/14
US	AUS920120350US1	13/740039	01/11/13
US	AUS920120374US1	13/688504	11/29/12
US	AUS920120380US1	13/845008	03/17/13
US	AUS920120381US1	13/965981	08/13/13
US	AUS920120381US2	14/025656	09/12/13
US	AUS920120418US1	13/858423	04/08/13
US	AUS920120475US1	13/918772	06/14/13
US	AUS920120475US2	14/079450	11/13/13
US	AUS920130076US1	13/902281	05/24/13
US	AUS920130076US2	14/024252	09/11/13
US	AUS920130077US1	14/083701	11/19/13
US	AUS920130079US1	13/921885	06/19/13
US	AUS920130079US2	14/025091	09/12/13
US	AUS920130082US1	13/902405	05/24/13

US	AUS920130086US1	13/911248	06/06/13
US	AUS920130086US2	14/041670	09/30/13
US	AUS920130128US1	14/148247	01/06/14
US	AUS920130177US1	14/159437	01/21/14
US	AUS920130181US1	14/051629	10/11/13
US	AUS920130183US1	14/159274	01/20/14
US	AUS920130184US1	14/140382	12/24/13
US	AUS920130336US1	14/154721	01/14/14
US	AUS920130338US1	14/154754	01/14/14
US	AUS920130347US1	14/159423	01/20/14
US	AUS920130348US1	14/153639	01/13/14
US	AUS920130395US1	14/302671	06/12/14
US	AUS920130396US1	14/248681	04/09/14
US	AUS920130401US1	14/450551	08/04/14
US	AUS920140017US1	14/310506	06/20/14
US	AUS920140022US1	14/299623	06/09/14
US	AUS920140097US1	14/307592	06/18/14
US	AUS920140098US1	14/307817	06/18/14
US	AUS920140100US1	14/307918	06/18/14
US	AUS920140102US1	14/307966	06/18/14
US	AUS920140109US1	14/303681	06/13/14
US	AUS920140112US1	14/308010	06/18/14
US	AUS920140182US1	14/465083	08/21/14
US	AUS920140191US1	14/444059	07/28/14
US	AUS920140227US1	14/459197	08/13/14
US	BEA920040009US1	10/888766	07/09/04
US	CHA920130025US1	14/155683	01/15/14
US	CN920120125US1	14/023973	09/11/13
US	CN920120136US1	14/059612	10/22/13
US	CN920120136US2	14/483964	09/15/14
US	CN920130002US1	14/216631	03/17/14
US	CN920130037US1	14/289338	05/28/14
US	CN920130062US1	14/315834	06/26/14
US	END920120074US2	14/461662	08/18/14
US	END920120193US1	13/775426	02/25/13
US	END920130201US1	14/180587	02/14/14
US	END920130201US2	14/316834	06/27/14
US	GB920130020US1	13/928547	06/27/13
US	IN920130095US1	14/305073	06/16/14
US	JP920120008US1	14/013348	08/29/13
US	JP920120008US2	14/038906	09/27/13
US	POU920130072US1	14/055488	10/16/13
US	POU920130078US1	13/869248	04/24/13
US	POU920140029US1	14/193075	02/28/14
US	ROC920120058US1	13/568849	08/07/12
US	ROC920120078US2	13/691928	12/03/12
US	ROC920120139US2	13/770171	02/19/13
US	ROC920120140US1	13/688532	11/29/12
US	ROC920120140US2	13/739940	01/11/13

US	ROC920120191US1	13/762605	02/08/13
US	ROC920120192US1	13/743486	01/17/13
US	ROC920120194US1	13/804074	03/14/13
US	ROC920120194US2	13/834322	03/15/13
US	ROC920120196US1	13/718455	12/18/12
US	ROC920120196US2	13/793345	03/11/13
US	ROC920120205US1	13/739292	01/11/13
US	ROC920120205US2	13/791850	03/08/13
US	ROC920120214US1	13/773840	02/22/13
US	ROC920120214US2	13/791920	03/09/13
US	ROC920130010US1	13/781305	02/28/13
US	ROC920130059US1	14/030334	09/18/13
US	ROC920130067US1	14/150988	01/09/14
US	ROC920130067US2	14/251131	04/11/14
US	ROC920130090US1	14/158935	01/20/14
US	ROC920130090US2	14/170668	02/03/14
US	ROC920130097US1	14/178068	02/11/14
US	ROC920130097US2	14/251271	04/11/14
US	ROC920130101US1	14/159242	01/20/14
US	ROC920130101US2	14/164751	01/27/14
US	ROC920130180US1	14/026107	09/13/13
US	ROC920130193US1	14/161238	01/22/14
US	ROC920130193US2	14/177444	02/11/14
US	ROC920130195US1	14/161391	01/22/14
US	ROC920130195US2	14/177315	02/11/14
US	ROC920130203US1	14/143131	12/30/13
US	ROC920130203US2	14/280937	05/19/14
US	ROC920130244US1	14/135715	12/20/13
US	ROC920130244US2	14/289934	05/29/14
US	RPS920120018US1	13/558057	07/25/12
US	RPS920120043US1	13/565762	08/02/12
US	RPS920120045US1	13/610939	09/12/12
US	RPS920120045US2	13/713016	12/13/12
US	RPS920120048US1	13/596022	08/27/12
US	RPS920120051US1	13/660042	10/25/12
US	RPS920120051US2	13/973182	08/22/13
US	RPS920120066US1	13/613265	09/13/12
US	RPS920120068US1	13/673428	11/09/12
US	RPS920120068US2	13/708508	12/07/12
US	RPS920120082US1	13/709015	12/09/12
US	RPS920120098US1	13/630722	09/28/12
US	RPS920120105US1	13/648336	10/10/12
US	RPS920120105US2	13/965742	08/13/13
US	RPS920120106US1	13/689968	11/30/12
US	RPS920120106US2	13/707877	12/07/12
US	RPS920120116US1	13/707970	12/07/12
US	RPS920120117US1	13/689921	11/30/12
US	RPS920130007US1	14/062485	10/24/13
US	RPS920130030US1	14/017293	09/03/13

US	RPS920130030US2	14/023245	09/10/13
US	RPS920130037US1	13/965263	08/13/13
US	RPS920130037US2	13/966814	08/14/13
US	RPS920130041US1	14/059742	10/22/13
US	RPS920130041US2	14/060689	10/23/13
US	RPS920130048US1	14/019923	09/06/13
US	RPS920130048US2	14/022304	09/10/13
US	RPS920130051US1	14/013799	08/29/13
US	RPS920130051US2	14/016375	09/03/13
US	RPS920130059US1	13/965486	08/13/13
US	RPS920130061US1	14/062600	10/24/13
US	RPS920130061US2	14/063427	10/25/13
US	RPS920130063US1	14/096246	12/04/13
US	RPS920130064US1	14/043370	10/01/13
US	RPS920130066US1	14/036712	09/25/13
US	RPS920130067US1	14/012168	08/28/13
US	RPS920130071US1	14/050456	10/10/13
US	RPS920130071US2	14/052119	10/11/13
US	RPS920130073US1	13/960146	08/06/13
US	RPS920130073US2	13/960857	08/07/13
US	RPS920130078US1	14/047660	10/07/13
US	RPS920130078US2	14/048175	10/08/13
US	RPS920130079US1	14/036187	09/25/13
US	RPS920130079US2	14/037649	09/26/13
US	RPS920130083US1	14/081008	11/15/13
US	RPS920130087US1	14/084261	11/19/13
US	RPS920130089US1	14/136489	12/20/13
US	RPS920130090US1	14/108511	12/17/13
US	RPS920130095US1	14/102902	12/11/13
US	RPS920130095US2	14/104498	12/12/13
US	RPS920130098US1	14/103966	12/12/13
US	RPS920130106US1	14/076303	11/11/13
US	RPS920130107US1	14/102543	12/11/13
US	RPS920130107US2	14/103925	12/12/13
US	RPS920130109US1	14/104116	12/12/13
US	RPS920130109US2	14/105523	12/13/13
US	RPS920130110US1	14/106128	12/13/13
US	RPS920130110US2	14/106928	12/16/13
US	RPS920130113US1	14/096107	12/04/13
US	RPS920130114US1	13/974818	08/23/13
US	RPS920130117US1	14/146068	01/02/14
US	RPS920130117US2	14/146757	01/03/14
US	RPS920130118US1	14/109401	12/17/13
US	RPS920130120US1	14/046289	10/04/13
US	RPS920130120US2	14/047375	10/07/13
US	RPS920130121US1	14/149202	01/07/14
US	RPS920130123US1	14/021550	09/09/13
US	RPS920130123US2	14/061867	10/24/13
US	RPS920130124US1	14/149688	01/07/14

US	RPS920130126US1	14/305015	06/16/14
US	RPS920130127US1	14/163847	01/24/14
US	RPS920130129US1	14/183917	02/19/14
US	RPS920130130US1	14/215541	03/17/14
US	RPS920130132US1	14/183871	02/19/14
US	RPS920130134US1	14/249653	04/10/14
US	RPS920130134US2	14/251811	04/14/14
US	RPS920130136US1	14/208329	03/13/14
US	RPS920130136US2	14/210524	03/14/14
US	RPS920130137US1	14/260325	04/24/14
US	RPS920130140US1	14/190713	02/26/14
US	RPS920130141US1	14/248598	04/09/14
US	RPS920130141US2	14/249557	04/10/14
US	RPS920130144US1	14/100056	12/09/13
US	RPS920130144US2	14/101475	12/10/13
US	RPS920130145US1	14/251900	04/14/14
US	RPS920130145US2	14/253172	04/15/14
US	RPS920130149US1	14/251940	04/14/14
US	RPS920130149US2	14/253183	04/15/14
US	RPS920130150US1	14/086518	11/21/13
US	RPS920130153US1	14/230030	03/31/14
US	RPS920130156US1	14/256006	04/18/14
US	RPS920130156US2	14/257103	04/21/14
US	RPS920130159US1	14/260372	04/24/14
US	RPS920130161US1	14/218909	03/18/14
US	RPS920130163US1	14/187636	02/24/14
US	RPS920130164US1	14/185974	02/21/14
US	RPS920130167US1	14/264808	04/29/14
US	RPS920130168US1	14/285673	05/23/14
US	RPS920130168US2	14/287368	05/27/14
US	RPS920140004US1	14/324310	07/07/14
US	RPS920140005US1	14/302477	06/12/14
US	RPS920140005US2	14/304121	06/13/14
US	RPS920140006US1	14/174250	02/06/14
US	RPS920140012US1	14/224811	03/25/14
US	RPS920140014US1	14/212848	03/14/14
US	RPS920140017US1	14/228497	03/28/14
US	RPS920140025US1	14/304099	06/13/14
US	RPS920140026US1	14/300515	06/10/14
US	RPS920140028US1	14/288671	05/28/14
US	RPS920140030US1	14/326081	07/08/14
US	RPS920140030US2	14/326830	07/09/14
US	RPS920140032US1	14/457288	08/12/14
US	RPS920140035US1	14/250446	04/11/14
US	RPS920140037US1	14/322874	07/02/14
US	RPS920140041US1	14/298029	06/06/14
US	RPS920140050US1	14/472608	08/29/14
US	RPS920140052US1	14/469015	08/26/14
US	RPS920140056US1	14/329908	07/12/14

US	RPS920140057US1	14/459531	08/14/14
US	RSW920120108US1	13/590686	08/21/12
US	RSW920130026US1	13/896489	05/17/13
US	RSW920130026US2	13/901880	05/24/13
US	RSW920130137US1	14/148965	01/07/14
US	RSW920140027US1	14/318864	06/30/14
US	SJO920110038US2	14/072914	11/06/13
US	SJO920110040US2	14/283583	05/21/14
US	SJO920120001US1	13/619283	09/14/12
US	SJO920120010US1	13/570739	08/09/12
US	SJO920120010US2	14/074400	11/07/13
US	SJO920120023US1	13/594966	08/27/12
US	SJO920120023US2	14/072075	11/05/13
US	SJO920120040US1	13/741346	01/14/13
US	SJO920120043US1	13/831029	03/14/13
US	SJO920120043US2	14/062817	10/24/13
US	SJO920120048US1	13/741330	01/14/13
US	SJO920120053US1	13/598417	08/29/12
US	SJO920120055US1	13/745623	01/18/13
US	SJO920120069US1	13/842907	03/15/13
US	SJO920120080US1	13/646499	10/05/12
US	SJO920120080US2	14/072268	11/05/13
US	SJO920120093US1	13/734654	01/04/13
US	SJO920120093US2	14/072345	11/05/13
US	SJO920120122US1	13/742274	01/15/13
US	SJO920120130US1	13/754749	01/30/13
US	SJO920120130US2	14/065253	10/28/13
US	SJO920130013US1	13/826785	03/14/13
US	SJO920130056US1	13/943136	07/16/13
US	SJO920130072US1	13/971616	08/20/13
US	SJO920130074US1	13/971636	08/20/13
US	SJO920130089US1	14/047307	10/07/13
US	SJO920130092US1	14/083300	11/18/13
US	SJO920130097US1	14/061586	10/23/13
US	SJO920130113US1	14/059245	10/21/13
US	SJO920130116US1	14/144879	12/31/13
US	SJO920130160US1	14/270626	05/06/14
US	SJO920130161US1	14/270716	05/06/14
US	SJO920130169US1	14/340452	07/24/14
US	SJO920140015US1	14/231258	03/31/14
US	SJO920140018US1	14/275831	05/12/14
US	SJO920140061US1	14/469325	08/26/14
US	TUC920120091US1	13/778640	02/27/13
US	TUC920120095US1	13/585901	08/15/12
US	TUC920120105US1	13/667834	11/02/12
US	TUC920120112US1	13/684738	11/26/12
US	TUC920120194US1	13/691636	11/30/12
US	TUC920130003US1	13/771452	02/20/13
US	TUC920130043US1	13/913741	06/10/13

US	TUC920130073US1	13/948304	07/23/13
US	TUC920130103US1	13/945294	07/18/13
US	TUC920130111US1	14/016738	09/03/13
US	TUC920130133US1	14/028655	09/17/13
US	TUC920130183US1	14/178522	02/12/14
US	TUC920130204US1	14/312860	06/24/14
US	TUC920130205US1	14/164986	01/27/14
US	TUC920140074US1	29/495242	06/27/14
US	TW920120024US1	14/017928	09/04/13
US	TW920120033US1	14/168782	01/31/14
US	TW920120033US2	14/301868	06/11/14
US	TW920130008US1	14/173968	02/06/14
US	TW920130010US1	14/260879	04/24/14
US	TW920130010US2	14/303807	06/13/14
US	TW920130016US1	14/277199	05/14/14
US	TW920130017US1	14/468404	08/26/14
US	YOR920120984US1	13/777470	02/26/13
US	YOR920130145US1	13/945409	07/18/13
US	YOR920130772US1	14/297035	06/05/14
US	YOR920130781US1	14/173187	02/05/14
US	YOR920140092US1	14/444345	07/28/14
US	AUS920140093US1	14/301590	06/11/14

Inactive Applications

Country	IBM Docket Number	Application Serial Number	Filing Date
CN	BEA920040009CN1	200510082548.6	07/08/05
US	CN920110123US1	13/774258	02/22/13

END OF EXHIBIT C