

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3100385

|                                             |                                                   |                       |
|---------------------------------------------|---------------------------------------------------|-----------------------|
| <b>SUBMISSION TYPE:</b>                     | NEW ASSIGNMENT                                    |                       |
| <b>NATURE OF CONVEYANCE:</b>                | ASSIGNMENT                                        |                       |
| <b>CONVEYING PARTY DATA</b>                 |                                                   |                       |
| <b>Name</b>                                 |                                                   | <b>Execution Date</b> |
| INTERNATIONAL BUSINESS MACHINES CORPORATION |                                                   | 09/26/2014            |
| <b>RECEIVING PARTY DATA</b>                 |                                                   |                       |
| <b>Name:</b>                                | LENOVO ENTERPRISE SOLUTIONS (SINGAPORE) PTE. LTD. |                       |
| <b>Street Address:</b>                      | 151 LORONG CHUAN                                  |                       |
| <b>Internal Address:</b>                    | #02-01, NEW TECH PARK                             |                       |
| <b>City:</b>                                | SINGAPORE                                         |                       |
| <b>State/Country:</b>                       | SINGAPORE                                         |                       |
| <b>Postal Code:</b>                         | 556741                                            |                       |
| <b>PROPERTY NUMBERS Total: 299</b>          |                                                   |                       |
| <b>Property Type</b>                        | <b>Number</b>                                     |                       |
| Application Number:                         | 10888766                                          |                       |
| Application Number:                         | 13558057                                          |                       |
| Application Number:                         | 13565762                                          |                       |
| Application Number:                         | 13568849                                          |                       |
| Application Number:                         | 13570739                                          |                       |
| Application Number:                         | 13585901                                          |                       |
| Application Number:                         | 13590686                                          |                       |
| Application Number:                         | 13594966                                          |                       |
| Application Number:                         | 13596022                                          |                       |
| Application Number:                         | 13598417                                          |                       |
| Application Number:                         | 13610939                                          |                       |
| Application Number:                         | 13613217                                          |                       |
| Application Number:                         | 13613265                                          |                       |
| Application Number:                         | 13619283                                          |                       |
| Application Number:                         | 13556521                                          |                       |
| Application Number:                         | 13593672                                          |                       |
| Application Number:                         | 13620416                                          |                       |
| Application Number:                         | 13620433                                          |                       |
| Application Number:                         | 13630722                                          |                       |
| Application Number:                         | 13646499                                          |                       |

PATENT

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 13648336 |
| Application Number: | 13660042 |
| Application Number: | 13667834 |
| Application Number: | 13668704 |
| Application Number: | 13669536 |
| Application Number: | 13673428 |
| Application Number: | 13673567 |
| Application Number: | 13675591 |
| Application Number: | 13684738 |
| Application Number: | 13688504 |
| Application Number: | 13688532 |
| Application Number: | 13689921 |
| Application Number: | 13689968 |
| Application Number: | 13691636 |
| Application Number: | 13691928 |
| Application Number: | 13707877 |
| Application Number: | 13707970 |
| Application Number: | 13708508 |
| Application Number: | 13709015 |
| Application Number: | 13713016 |
| Application Number: | 13718455 |
| Application Number: | 13722754 |
| Application Number: | 13734654 |
| Application Number: | 13739292 |
| Application Number: | 13739940 |
| Application Number: | 13740039 |
| Application Number: | 13741330 |
| Application Number: | 13741346 |
| Application Number: | 13742274 |
| Application Number: | 13743486 |
| Application Number: | 13745623 |
| Application Number: | 13754749 |
| Application Number: | 13758140 |
| Application Number: | 13762605 |
| Application Number: | 13765737 |
| Application Number: | 13770171 |
| Application Number: | 13771452 |
| Application Number: | 13773840 |
| Application Number: | 13775426 |

**PATENT**

**REEL. 034194 FRAME. 0354**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 13777470 |
| Application Number: | 13777926 |
| Application Number: | 13778640 |
| Application Number: | 13778827 |
| Application Number: | 13781305 |
| Application Number: | 13791850 |
| Application Number: | 13791920 |
| Application Number: | 13793345 |
| Application Number: | 13804074 |
| Application Number: | 13826785 |
| Application Number: | 13831029 |
| Application Number: | 13834322 |
| Application Number: | 13842907 |
| Application Number: | 13845008 |
| Application Number: | 13858423 |
| Application Number: | 13869248 |
| Application Number: | 13896489 |
| Application Number: | 13901880 |
| Application Number: | 13902281 |
| Application Number: | 13902405 |
| Application Number: | 13911248 |
| Application Number: | 13913741 |
| Application Number: | 13918772 |
| Application Number: | 13921885 |
| Application Number: | 13928547 |
| Application Number: | 13943136 |
| Application Number: | 13945294 |
| Application Number: | 13945409 |
| Application Number: | 13948304 |
| Application Number: | 13960146 |
| Application Number: | 13960857 |
| Application Number: | 13965263 |
| Application Number: | 13965486 |
| Application Number: | 13965742 |
| Application Number: | 13965981 |
| Application Number: | 13966814 |
| Application Number: | 13971616 |
| Application Number: | 13971636 |
| Application Number: | 13973182 |

**PATENT**

**REEL. 034194 FRAME. 0355**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 13974818 |
| Application Number: | 14012168 |
| Application Number: | 14013348 |
| Application Number: | 14013799 |
| Application Number: | 14016375 |
| Application Number: | 14016738 |
| Application Number: | 14017293 |
| Application Number: | 14017928 |
| Application Number: | 14019923 |
| Application Number: | 14021550 |
| Application Number: | 14022304 |
| Application Number: | 14023245 |
| Application Number: | 14023973 |
| Application Number: | 14024252 |
| Application Number: | 14025091 |
| Application Number: | 14025656 |
| Application Number: | 14026107 |
| Application Number: | 14028655 |
| Application Number: | 14030334 |
| Application Number: | 14036187 |
| Application Number: | 14036712 |
| Application Number: | 14037649 |
| Application Number: | 14038906 |
| Application Number: | 14041670 |
| Application Number: | 14043370 |
| Application Number: | 14046289 |
| Application Number: | 14047307 |
| Application Number: | 14047375 |
| Application Number: | 14047660 |
| Application Number: | 14048175 |
| Application Number: | 14050456 |
| Application Number: | 14051629 |
| Application Number: | 14052119 |
| Application Number: | 14055488 |
| Application Number: | 14059245 |
| Application Number: | 14059612 |
| Application Number: | 14059742 |
| Application Number: | 14060689 |
| Application Number: | 14061586 |

**PATENT**

**REEL. 034194 FRAME. 0356**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 14061867 |
| Application Number: | 14062485 |
| Application Number: | 14062600 |
| Application Number: | 14062817 |
| Application Number: | 14063427 |
| Application Number: | 14065253 |
| Application Number: | 14072075 |
| Application Number: | 14072268 |
| Application Number: | 14072345 |
| Application Number: | 14072914 |
| Application Number: | 14074400 |
| Application Number: | 14076303 |
| Application Number: | 14079450 |
| Application Number: | 14081008 |
| Application Number: | 14083300 |
| Application Number: | 14083701 |
| Application Number: | 14084261 |
| Application Number: | 14086518 |
| Application Number: | 14096107 |
| Application Number: | 14096246 |
| Application Number: | 14100056 |
| Application Number: | 14101475 |
| Application Number: | 14102543 |
| Application Number: | 14102902 |
| Application Number: | 14103925 |
| Application Number: | 14103966 |
| Application Number: | 14104116 |
| Application Number: | 14104498 |
| Application Number: | 14105523 |
| Application Number: | 14106128 |
| Application Number: | 14106928 |
| Application Number: | 14108511 |
| Application Number: | 14109401 |
| Application Number: | 14135715 |
| Application Number: | 14136489 |
| Application Number: | 14140382 |
| Application Number: | 14143131 |
| Application Number: | 14144879 |
| Application Number: | 14146068 |

**PATENT**

**REEL. 034194 FRAME. 0357**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 14146757 |
| Application Number: | 14148247 |
| Application Number: | 14148965 |
| Application Number: | 14149202 |
| Application Number: | 14149688 |
| Application Number: | 14150988 |
| Application Number: | 14153639 |
| Application Number: | 14154721 |
| Application Number: | 14154754 |
| Application Number: | 14155683 |
| Application Number: | 14158935 |
| Application Number: | 14159242 |
| Application Number: | 14159274 |
| Application Number: | 14159423 |
| Application Number: | 14159437 |
| Application Number: | 14161238 |
| Application Number: | 14161391 |
| Application Number: | 14163847 |
| Application Number: | 14164751 |
| Application Number: | 14164986 |
| Application Number: | 14166158 |
| Application Number: | 14168782 |
| Application Number: | 14170668 |
| Application Number: | 14173187 |
| Application Number: | 14173968 |
| Application Number: | 14174250 |
| Application Number: | 14176196 |
| Application Number: | 14177315 |
| Application Number: | 14177444 |
| Application Number: | 14178068 |
| Application Number: | 14178522 |
| Application Number: | 14180587 |
| Application Number: | 14183871 |
| Application Number: | 14183917 |
| Application Number: | 14185974 |
| Application Number: | 14187636 |
| Application Number: | 14190713 |
| Application Number: | 14193075 |
| Application Number: | 14208329 |

**PATENT**

**REEL. 034194 FRAME. 0356**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 14210524 |
| Application Number: | 14212848 |
| Application Number: | 14215541 |
| Application Number: | 14216631 |
| Application Number: | 14218909 |
| Application Number: | 14224811 |
| Application Number: | 14228497 |
| Application Number: | 14230030 |
| Application Number: | 14231258 |
| Application Number: | 14248598 |
| Application Number: | 14248681 |
| Application Number: | 14249557 |
| Application Number: | 14249653 |
| Application Number: | 14250446 |
| Application Number: | 14251131 |
| Application Number: | 14251271 |
| Application Number: | 14251811 |
| Application Number: | 14251900 |
| Application Number: | 14251940 |
| Application Number: | 14253172 |
| Application Number: | 14253183 |
| Application Number: | 14256006 |
| Application Number: | 14257103 |
| Application Number: | 14260325 |
| Application Number: | 14260372 |
| Application Number: | 14260879 |
| Application Number: | 14264808 |
| Application Number: | 14270626 |
| Application Number: | 14270716 |
| Application Number: | 14275831 |
| Application Number: | 14277199 |
| Application Number: | 14280937 |
| Application Number: | 14283583 |
| Application Number: | 14285673 |
| Application Number: | 14287368 |
| Application Number: | 14288671 |
| Application Number: | 14289338 |
| Application Number: | 14289934 |
| Application Number: | 14297035 |

**PATENT**

**REEL. 034194 FRAME. 0359**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 14298029 |
| Application Number: | 14299623 |
| Application Number: | 14300515 |
| Application Number: | 14301590 |
| Application Number: | 14301868 |
| Application Number: | 14302477 |
| Application Number: | 14302671 |
| Application Number: | 14303681 |
| Application Number: | 14303807 |
| Application Number: | 14304099 |
| Application Number: | 14304121 |
| Application Number: | 14305015 |
| Application Number: | 14305073 |
| Application Number: | 14307592 |
| Application Number: | 14307817 |
| Application Number: | 14307918 |
| Application Number: | 14307966 |
| Application Number: | 14308010 |
| Application Number: | 14310506 |
| Application Number: | 14312860 |
| Application Number: | 14315834 |
| Application Number: | 14316834 |
| Application Number: | 14318864 |
| Application Number: | 14322874 |
| Application Number: | 14324310 |
| Application Number: | 14326081 |
| Application Number: | 14326830 |
| Application Number: | 14329908 |
| Application Number: | 14340452 |
| Application Number: | 14444059 |
| Application Number: | 14444345 |
| Application Number: | 14450551 |
| Application Number: | 14451129 |
| Application Number: | 14451505 |
| Application Number: | 14457288 |
| Application Number: | 14459197 |
| Application Number: | 14459531 |
| Application Number: | 14461662 |
| Application Number: | 14465083 |

**PATENT**

**REEL. 034194 FRAME. 0360**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 14468404 |
| Application Number: | 14469015 |
| Application Number: | 14469325 |
| Application Number: | 14472608 |
| Application Number: | 14483964 |
| Application Number: | 29495242 |

#### CORRESPONDENCE DATA

**Fax Number:** (703)413-2220

***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:** (703) 413-3000

**Email:** khudson@oblon.com

**Correspondent Name:** OBLON, SPIVAK, ET AL.

**Address Line 1:** 1940 DUKE STREET

**Address Line 4:** ALEXANDRIA, VIRGINIA 22314

|                                |                   |
|--------------------------------|-------------------|
| <b>ATTORNEY DOCKET NUMBER:</b> | 442777US8SD       |
| <b>NAME OF SUBMITTER:</b>      | KAREN L. HUDSON   |
| <b>SIGNATURE:</b>              | /Karen L. Hudson/ |
| <b>DATE SIGNED:</b>            | 11/10/2014        |

#### Total Attachments: 10

source=Lenovo Suppl Asn Appln#page1.tif  
source=Lenovo Suppl Asn Appln#page2.tif  
source=Lenovo Suppl Asn Appln#page3.tif  
source=Lenovo Suppl Asn Appln#page4.tif  
source=Lenovo Suppl Asn Appln#page5.tif  
source=Lenovo Suppl Asn Appln#page6.tif  
source=Lenovo Suppl Asn Appln#page7.tif  
source=Lenovo Suppl Asn Appln#page8.tif  
source=Lenovo Suppl Asn Appln#page9.tif  
source=Lenovo Suppl Asn Appln#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: 9/26/2014

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**

| <b>Country</b> | <b>IBM Docket Number</b> | <b>Application Serial Number</b> | <b>Filing Date</b> |
|----------------|--------------------------|----------------------------------|--------------------|
| US             | AUS920090087US2          | 13/593672                        | 08/24/12           |
| US             | SJO920080111US2          | 13/556521                        | 07/24/12           |

**Inactive Applications**

| <b>Country</b> | <b>IBM Docket Number</b> | <b>Application Serial Number</b> | <b>Filing Date</b> |
|----------------|--------------------------|----------------------------------|--------------------|
| 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