#### 505171076 11/01/2018

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5217844

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
EBAY INC.	07/17/2015

### **RECEIVING PARTY DATA**

Name:	PAYPAL, INC.
Street Address:	2211 NORTH FIRST STREET
City:	SAN JOSE
State/Country:	CALIFORNIA
Postal Code:	95131

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16174985

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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ATTORNEY DOCKET NUMBER:	70481.648US03
NAME OF SUBMITTER:	LIYAN ZHU
SIGNATURE:	/Liyan Zhu/
DATE SIGNED:	11/01/2018

#### **Total Attachments: 9**

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# EXHIBIT A FORM OF RECORDABLE PATENT ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, eBay Inc., a Delaware corporation ("Assignor") hereby irrevocably assigns, transfers, conveys and delivers to PayPal, Inc., a Delaware corporation ("Assignee") all of Assignor's right, title and interest in and to the following: (a) the patents and patent applications listed in Exhibit A hereto. all patents that issue from such patent applications, and any counterparts, divisional, substitution, continuation, continuation-in-part, reissue, reexamination, extension, renewal or registrations of such patents, and any and all foreign counterparts thereof (including but not limited to all inventors certificates, utility models, invention registrations, or any other industrial property rights however denominated, as well as any foreign or U.S. intellectual property rights which claim priority to or claim priority from any of the foregoing) (collectively, the "Patents"); (b) all rights, privileges and protections of any kind whatsoever of Assignor accruing under any of the Patents provided under the applicable law of any jurisdiction, by international treaties and conventions and otherwise throughout the world, including, but not limited to, the right to file foreign patent applications; (c) all royalties, fees, income, payments and other proceeds now or hereafter due or payable with respect to any and all of the foregoing; (d) any and all claims and causes of action, with respect to any of the Patents, whether accruing before, on or after the date hereof, including all rights to and claims for damages, restitution and injunctive and other legal and equitable relief for past, present and future infringement with the right but not the obligation to petition or sue for, or otherwise seek, such legal and equitable relief and to collect, or otherwise recover, any such damages; and (e) the right to assign the rights conveyed herein, the same to be held and enjoyed by Assignee for its own use and benefit, and for the benefit of its successors, assigns, and legal representatives.

(The remainder of this page is intentionally left blank. The signature pages follow.)

IN WITNESS WHEREOF, Assignor caused this Patent Assignment to be duly executed on its behalf.

ASSIGNOR:

eBay Inc.

By:

Its: S. V. P. GENERAL COUNSES

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA ) ss.

COUNTY OF SANTA CLARA )

Before me, the undersigned authority, on this 17th day of 1015, personally appeared 10 local accordance known to me as the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same for the purposes and consideration therein expressed, in the capacity state, and with authority to act in this assignment on behalf of the Assignor.

Notary Public

MELISSA K. RITCHIE
Commission # 1981111
Notary Public - California
Santa Clara County
My Comm. Expires Jul 2, 2016

(Signature of Notary)

Mulissa K Lutchie (Legibly Print or Stamp Name of Notary)

ACCEPTED BY:

V. A	eleting this certificate verifies only the identity of the individual is certificate is attached, and not the truthfulness, accuracy, or
STATE OF CALIFORNIA ) ss.	
COUNTY OF SANTA CLARA	
same for the purposes and conside authority to act in this assignment on	known to me as the person whose instrument and acknowledged to me that he/she executed the eration therein expressed, in the capacity state, and with
State Bertin White & FORLA	Notary Public
Str. W.	(Signature of Notary)
	(Legibly Print or Stamp Name of Notary)

ASSIGNEE:

PayPal, Inc.

SIGNATURE PAGE TO PATENT ASSIGNMENT AGREEMENT

	cate verifies only the identity of the individual who signed the the truthfulness, accuracy, or validity of that document.
State of California	<b>)</b>
County of Santa Clara	)
On Sills 13 3/16 hefore me Vill	42 A VINCENLIAL NOTHAN VIVALCE
On before me,	Here Insert Name and Title of the Officer
personally appeared 1984 Elevan	
Expression 5. add by a second	Name(s) of Signer(s)
subscribed to the within instrument and acknow	y evidence to be the person(s) whose name(s) is/are wledged to me that he/shothor executed the same in his/her/their signature(s) on the instrument the person(s), acted, executed the instrument.
	I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.
	WITNESS my hand and official seal.
PAULA A. BARSAMIAN Commission # 2057554 Notary Public - California	Signature Dulla A. Mulaus
Santa Clara County My Comm. Expires Mar 10, 2018	Signature of Notary Public
Place Notary Seal Above	PTIONAL
Though this section is optional, completing thi	is information can deter alteration of the document or is form to an unintended document.
Description of Attached Document	
Title or Type of Document:	
Number of Pages: Signer(s) Other Th	an Named Above:
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☐ Corporate Officer — Title(s):	☐ Corporate Officer — Title(s):
□ Partner — □ Limited □ General	☐ Partner — ☐ Limited ☐ General
☐ Individual ☐ Attorney in Fact	☐ Individual ☐ Attorney in Fact
☐ Trustee ☐ Guardian or Conservator	☐ Trustee ☐ Guardian or Conservator
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		Apr 17, 2013	Allowed	04 CURRENCY WEIGHTED CROSS BORDER LISTING EXPOSURE	13865004
				73 RETRIEVAL OF DATA USING A NETWORK COMMUNICATION DEVICE	13863273
				A METHOD AND APPARATUS FOR DATA RECIPIENT STORAGE AND	
		Apr 15, 2013	Allowed		
		Apr 15, 2013	Pending	39 ADVANCED PAYMENT MANAGEMENT SYSTEM	13863039
				27 REMOTE DEVICE	13861327
		Apr 11, 2013	Pending	METHOD AND APPARATUS FOR AUTHORIZING A PAYMENT VIA A	
		Apr 10, 2013	Pending	95 CENTRALIZED TRANSACTION RECORD STORAGE	13860395
				13859434 A CONSUMER AND A MERCHANT	13859434
		Apr 9, 2013	Pending	METHOD AND SYSTEM FOR ENGAGING IN A TRANSACTION BETWEEN	
		Apr 1, 2013	Pending	78 EXPANDING BUTTON	13854878
					13854801
		Apr 1, 2013	Pending	SYSTEM AND METHODS TO CONFIGURE A PROFILE TO RANK SEARCH	
				57 METHOD AND SYSTEM FOR MANAGING RESOURCE CONNECTIONS	13854667
May 20, 2014	8732719	Apr 1, 2013	Issued		
			ı	)1 FACILITATED DISPUTE PROCESSING BY UTILIZING AN E-RECEIPT	13853891
		Mar 29, 2013	Pending		
		Mar 29, 2013	Pending	53 CROSS PLATFORM APPLICATION TRANSACTIONS	13853463
		Mar 29, 2013	Pending	55 ROUTINE SUGGESTION SYSTEM	13853455
		Mar 28, 2013	Pending	13852984 SELLER URL MONITORING SYSTEMS AND METHODS	13852984
		Mar 28, 2013	Pending	13852980 PREAUTHORIZE BUYERS TO COMMIT TO A GROUP PURCHASE	13852980
				13852920 PROVIDING PAYMENT WITH NON-TRADITIONAL SOURCES OF VALUE	13852920
				SYSTEMS, METHODS, AND COMPUTER PROGRAM PRODUCTS	
		Mar 28, 2013	Pending		
			9		13852911
		Mar 28 2013	Pending	SYSTEMS METHODS AND COMPLITER PROGRAM PRODUCTS FOR	
		Mar 28, 2013	Pending	13852207 MOBILE CHECK BOOK	13852207
				13846521 INVESTORS HAVING INVESTMENT PORTFOLIOS	13846521
		Mar 18, 2013	Pending	METHOD FOR IMPLEMENTING A VIRTUAL COMMUNITY OF	
			1		13843636
		Mar 15, 2013	Pending	GEOTAGGED IMAGE FOR CHECKING VALIDITY OF PURCHASE	
GRANT DATE	PATENT NUMBER	DATE FILED	STATUS	TITLE	APPLICATION NUMBER

METHOD AND S	METHOD AND S 13924029 MULTIPLE QUER	13920985 MERCHANT CONTROLLED POINT OF SALE	SIGNED RESPONSE TO AN ABUSIVE I	13917187 PAYMENT RECIPIENT VERIFICATION	13914913 FOCUS-BASED C	13914154 VIDEO MAIL THI	13913768 GROUP RECOMMENDATIONS	13910926 TRANSACTION DISPUTE RESOLUTION	SYSTEMS AND N	13910872 UNIFIED IDENTITY VERIFICATION	13909897 REMITTANCE SUBSCRIPTION	13909840 TRANSACTIONS	13906996 PAYMENI PREFERENCE OSER INTERFACE	13904910 DELEGATION PATIVIENT WITH FICTORE	1390/1910 DELEGATION PA	13899333 MULTI-PAYER P/	SYSTEMS AND N 13896748 BASED ON NETV	13874304 CONTEXT	SYSTEM AND MI	13872835 SAVE TO OPEN WALLET	13871580 VISUAL 3D INTERACTIVE INTERFACE	13871408 SYSTEM AND M	13868883 SHORTENER	COMMERCE OR	13867630 DOMAIN COMMUNICATIONS	SECURE EXPAND	APPLICATION NUMBER
METHOD AND SYSTEM TO AUTOMATICALLY GENERATE SOFTWARE CODE	METHOD AND SYSTEM FOR A TRANSPARENT APPLICATION OF MULTIPLE QUERIES ACROSS MULTIPLE DATA SOURCES	NTROLLED POINT OF SALE	SIGNED RESPONSE TO AN ABUSIVE EMAIL ACCOUNT OWNER AND PROVIDER SYSTEMS AND METHODS	PIENT VERIFICATION	13914913 FOCUS-BASED CHALLENGE-RESPONSE AUTHENTICATION	13914154 VIDEO MAIL THROUGH PEER TO PEER NETWORK	GROUP RECOMMENDATIONS	DISPUTE RESOLUTION	SYSTEMS AND METHODS FOR REDUCING FRADULENT ACTIVITY IN	TY VERIFICATION	JBSCRIPTION	13909840 TRANSACTIONS VIA A USER DEVICE IN THE PROXIMITY OF A SELLER				MULTI-PAYER PAYMENT SYSTEM	SYSTEMS AND METHODS FOR RESPONSIVE WEB PAGE DELIVERY BASED ON NETWORK BANDWIDTH		SYSTEM AND METHOD OF IMPROVING SPEECH RECOGNITION USING	WALLET		13871408 SYSTEM AND METHOD TO PROMOTE A PUBLICATION		COMMERCE ORIENTED UNIFORM RESOURCE LOCATER (URL)	<b>1UNICATIONS</b>	SECURE EXPANDABLE ADVERTISEMENTS USING AN API AND CROSS-	ТІТСЕ
Issued	Issued	Pending	Pending	Pending	Issued	Pending	Penaing	<del>.</del>	Pending	Pending	Pending	relidilig	Pending	relialig	Dending	Pending	Pending		Pending	Pending	Pending	Pending		Pending		Pending	STATUS
Jun 21, 2013	Jun 21, 2013	Jun 18, 2013	Jun 14, 2013	Jun 13, 2013	Jun 11, 2013	Jun 10, 2013	Jun 10, 2013	-	Jun 5, 2013	Jun 5, 2013	Jun 4, 2013	Juli 4, 2013	Iviay 31, 2013	IVIdy 29, 2013	May 29 2013	May 21, 2013	May 17, 2013		Apr 30, 2013	Apr 29, 2013	Apr 26, 2013	Apr 26, 2013		Apr 23, 2013		Apr 22, 2013	DATE FILED
8954439	8898147				8893229																						PATENT NUMBER
Feb 10, 2015	Nov 25, 2014				Nov 18, 2014																						GRANT DATE

		Jul 1, 2013	Pending	13932707 LOCATION RESTRICTED MESSAGE EXCHANGE SYSTEM	139327
				1702 USE IN A TRANSACTION	13931702
		Jun 28, 2013	Pending	SYSTEMS AND METHODS FOR GENERATING AND USING A TOKEN FOR	
		Jun 28, 2013	Pending	13931691 PAYMENT CODES FOR ENHANCED CONSUMER EXPERIENCE	139316
		Jun 28, 2013	Pending	13931672 EXPRESS TRANSACTIONS ON A MOBILE DEVICE	139316
		Jun 28, 2013	Pending	13931617 DEVICE FINGERPRINTING	139316
				13931423 TECHNOLOGIES	139314
				IDENTIFICATION NUMBER (PIN) USING MULTI-TOUCH TRACKPAD	
		Jun 28, 2013	Pending	SYSTEM AND METHODS FOR SECURE ENTRY OF A PERSONAL	
		Jun 28, 2013	Pending	13931344 PURCHASE INCENTIVIZING SYSTEM	139313
		Jun 28, 2013	Pending	13931278 MULTI-IDENTIFIER USER PROFILING SYSTEM	139312
		Jun 28, 2013	Pending	13931176 ROUTINE SUGGESTION SYSTEM	139311
				13930728 METHODS	139307
		Jun 28, 2013	Pending	DATA COMMUNICATION USING AUDIO PATTERNS SYSTEMS AND	
		Jun 28, 2013	Pending	)588 SELECTIVE BANNER AD DISPLAY	13930588
		Jun 28, 2013	Pending	13930548 LOCAL CONTEXTUAL DISPLAY	139305
		Jun 28, 2013	Pending	13930481 IN-STORE CARD ACTIVATION	139304
		Jun 28, 2013	Pending	13930444 USER SPECIFIC PURCHASING GUIDE SYSTEMS AND METHODS	139304
			0	13929655 SYSTEMS AND METHODS FOR IMPLEMENTING MONEY ORDERS	139296
		Jun 27. 2013	Pending		
		Jun 27, 2013	Pending	9458 CONDUCTIVE PAYMENT DEVICE	13929458
					13928932
		Jun 27, 2013	Pending	PRODUCT SEARCH USING USER SELECTIONS IN IMAGES SYSTEMS	
				3753 BROWSERS AND DEVICES SYSTEMS AND METHOD	13928753
		Jun 27, 2013	Pending	EXECUTION AND DISPLAY OF EVENTS IN A PLURALITY OF WEB	
				13928246 USING INTERACTIVE VOICE RESPONSE	139282
Jul 8, 2014	8775312	Jun 26, 2013	Issued	ALTERNATIVE PAYMENT METHOD FOR ONLINE TRANSACTIONS	
		Jun 26, 2013	Pending	3215 DETECTING HORIZONTAL ATTACKS	13928215
		Jun 25, 2013	Pending	5896 TRANSACTION APPROVAL FOR SHARED PAYMENT ACCOUNT	13926896
			Ć	13926731 ENGINE	139267
		Jun 25, 2013	Pending	AUTOMATED OPTIMIZATION OF AN ADVERTISEMENT PLACEMENT	
May 5, 2015	9027091	Jun 24, 2013	Issued	13925732 ROLE-BASED ATTRIBUTE BASED ACCESS CONTROL (RABAC)	139257
GRANT DATE	PATENT NUMBER	DATE FILED	STATUS	)N TITLE	APPLICATION NUMBER

1860   TRANSACTION SPUIT FEES   Pending   Jul 3, 2013   1870   1880   DONGLE FACILITATED WIRELESS CONSUMER PAYMENTS   Issued   Jul 10, 2013   8972296   N	APPLICATION NUMBER	TITLE	STATUS	DATE FILED	PATENT	GRANT DATE
ELESS CONSUMER PAYMENTS OR LOCATION-BASED TRANSACTION Pending Jul 11, 2013 Pending Jul 11, 2013  AND MERCHANT-CUSTOMER AND MERCHANT-CUSTOMER Pending AND MERCHANT-CUSTOMER Pending AND MERCHANT-CUSTOMER Pending Jul 18, 2013  AND MERCHANT-CUSTOMER Pending Jul 19, 2013  AND MERCHANT-CUSTOMER Pending Jul 19, 2013  RECOMMENDING ITEMS RECOMMENDING ITEMS Pending Jul 19, 2013  ENCRYPTION OF INFORMATION Pending DIVI 19, 2013  ENCRYPTION OF INFORMATION Pending OR FACILITATING FINANCIAL STWORK OR CACHING HITP POST REQUESTS AND Pending Jul 29, 2013  EMS SUPPORTING LENDERS WITH Pending Jul 31, 2013  EMS SEARCHES AND PRODUCT Pending Jul 31, 2013  EMS SEARCHES AND PRODUCT Pending Jul 31, 2013  EMS SAND METHODS Pending Jul 31, 2013	13934860		Pending	Jul 3, 2013		
OR LOCATION-BASED TRANSACTION         Pending         Jul 11, 2013           PULCATIONS OR WEBSITES IN MOBILE         Pending         Jul 17, 2013           AND MERCHANT-CUSTOMER         Pending         Jul 18, 2013           AND MERCHANT-CUSTOMER         Pending         Jul 18, 2013           AND MERCHANT-CUSTOMER         Pending         Jul 19, 2013           AND MERCHANT-CUSTOMER         Pending         Jul 19, 2013           RECOMMENDING ITEMS         Pending         Jul 19, 2013           Pending         Jul 19, 2013         Jul 29, 2013           Pending         Jul 29, 2013         Session           Pending         Jul 29, 2013         Session           Pending         Jul 29, 2013         Session           Pending         Jul 31, 2013         Jul 29, 2013           Pending         Jul 31, 2013         Jul 29, 2013           Pending         Jul 31, 2013         Jul 20, 2013	13938860		Issued	Jul 10, 2013	8972296	Mar 3, 2015
AND MERCHANT-CUSTOMER  AND MERCHANT-CUSTOMER  Pending  Jul 18, 2013  APPARATUS FOR GENERATING SEARCH  Pending  Jul 19, 2013  AND MERCHANT-CUSTOMER  Pending  Jul 19, 2013  RECOMMENDING ITEMS  Pending  Jul 19, 2013  RECOMMENDING ITEMS  Pending  Jul 19, 2013  Pending  Jul 19, 2013  Pending  Jul 19, 2013  Pending  Jul 19, 2013  ENCRYPTION OF INFORMATION  ENCRYPTION OF INFORMATION  ISSUEd  Jul 29, 2013  EMS SUPPORTING LENDERS WITH  EMS SUPPORTING LENDERS WITH  EMS AND METHODS  Pending  Jul 21, 2013  Pending  Jul 29, 2013  REMS AND METHODS  Pending  Jul 31, 2013  Pending  Jul 31, 2013  Pending  Jul 31, 2013  AUSER SEARCHES AND PRODUCT  Pending  Jul 31, 2013  Pending  Jul 31, 2013  Pending  Jul 31, 2013  AUSER SEARCHES AND PRODUCT  Pending  Jul 31, 2013  Pending  Jul 31, 2013  AUSER SEARCHES AND PRODUCT  Pending  Jul 31, 2013  Pending  Jul 31, 2013  AUSER SEARCHES AND PRODUCT  Pending  Jul 32, 2013  AUSER SEARCHES AND PRODUCT  Pending  Jul 32, 2013  AUSER SEARCHES AND PRODUCT  Pending  Jul 32, 2013  AUSER SEARCHES AND PRODUCT  PENDING  PENDING  AUSER SEARCHES AND PRODUCT  PENDING  PENDING  PENDING  AUSER SEARCHES AND PRODUCT  PENDING  PENDING  PENDING  JUL 32, 2013  AUSER SEARCHES AND PRODUCT  PENDING  PENDING  AUSER SEARCHES AND PRODUCT  PENDING  AUSER SEARC		CTION	Pending	Jul 11, 2013		
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	13959531	CARD READER FOR MOBILE DEVICE	Issued	Aug 5, 2013	8763900	Jul 1, 2014

APPLICATION NUMBER	TITLE	STATUS	DATE FILED	PATENT NUMBER	GRANT DATE
	SYSTEM AND METHODS FOR UNIT OF MEASUREMENT CONVERSION	Pending	Aug 5, 2013		
13959546	13959546 AND SEARCH QUERY EXPANSION				
13959586	13959586 MOBILE REMITTANCES/PAYMENTS	Pending	Aug 5, 2013		
	SYSTEMS AND METHODS FOR PROTECTING USERS FROM MALICIOUS	Pending	Aug 9, 2013		
13963241 CONTENT					
	FACILITATING TRANSACTIONS IN CONNECTION WITH SERVICE	Pending	Aug 9, 2013		
13963954	13963954 PROVIDERS				
13965017	13965017 AUTHORIZING USE OF A FINANCIAL INSTRUMENT	Pending	Aug 12, 2013		
	CREDIT PREAUTHORIZATION ON USER DEVICE DETECTION SYSTEMS	Pending	Aug 15, 2013		
13967739	13967739 AND METHODS				
	DETECTING MARKETING OPPORTUNITIES BASED ON SHARED	Pending	Aug 15, 2013		
13968131	13968131 ACCOUNT CHARACTERISTICS SYSTEMS AND METHODS				
13968279	13968279 SYSTEMS AND METHODS FOR AUTOMATIC PRICE MATCHING	Pending	Aug 15, 2013		
		Issued	Aug 16, 2013	8856732	Oct 7, 2014
	SYSTEM AND METHOD FOR CREATING, MANAGING, AND REUSING				
	SCHEMA TYPE DEFINITIONS IN SERVICES ORIENTED ARCHITECTURE				
13969345	13969345 SERVICES, GROUPED IN THE FORM OF LIBRARIES				
13970110	13970110 SHOPPING CONTEXT ENGINE	Issued	Aug 19, 2013	8832060	Sep 9, 2014
13971645	13971645 COLORED CARD SCROLLER	Pending	Aug 20, 2013		
		Pending	Aug 20, 2013		
13971717	13971717 SYSTEMS AND METHODS FOR LOCATION-BASED DEVICE SECURITY				
13973617	13973617 COORDINATED PURCHASING	Pending	Aug 22, 2013		
	METHODS AND SYSTEMS TO FACILITATE A PURCHASE OF AN ITEM	Allowed	Aug 23, 2013		
13975132	13975132 ON A NETWORK-BASED MARKETPLACE				
13975191	13975191 FACILITATING PURCHASE FROM VIDEO ADVERTISEMENTS	Pending	Aug 23, 2013		
14011968	14011968 METHOD AND SYSTEM TO PRE-FETCH DATA IN A NETWORK	Pending	Aug 28, 2013		

PATENT
RECORDED: 11/01/2018 REEL: 047385 FRAME: 0088