

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5774056

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
IBM	12/16/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SNAPCHAT, INC.
<b>Street Address:</b>	63 MARKET ST.
<b>City:</b>	VENICE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	90291
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15674271
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
<b>Email:</b>	request@slwip.com
<b>Correspondent Name:</b>	SCHWEGMAN LUNDBERG & WOESSNER P.A.
<b>Address Line 1:</b>	PO BOX 2938
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55402-0938
<b>ATTORNEY DOCKET NUMBER:</b>	4218.125US5
<b>NAME OF SUBMITTER:</b>	MICHELLE RED BEAR
<b>SIGNATURE:</b>	/Michelle Red Bear/
<b>DATE SIGNED:</b>	10/17/2019
<b>Total Attachments: 16</b>	
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RECORDATION FORM COVER SHEET  
PATENTS ONLY

Atty Ref/Docket No.: 4218.125US5

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

IBM

Additional name(s) of conveying party(ies) attached?

Yes  No

3. Nature of conveyance:

Assignment       Merger  
 Security Agreement    Change of Name  
 Other

Execution Date: December 16, 2015

2. Name and address of receiving party(ies):

Name: Snapchat, Inc.

Street Address: 63 Market St.

City: Venice State: CA Zip: 90291

Country: United States of America

Additional name(s) & address(es) attached?  Yes  No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

Serial No. 15/674,271, Filed August 10, 2017

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Raquel Pacheco

Address:

Swegman Lundberg & Woessner, P.A.  
P.O. Box 2938  
Minneapolis, Minnesota 55402

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$ 0.00

Enclosed

Authorized to be charged to deposit account 19-0743

8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Raquel Pacheco/Reg. No. 58,401

Name of Person Signing

/Raquel Pacheco/

Signature

October 16, 2019

Date

Total number of pages including cover sheet: 16

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks  
Mail Stop Assignment Recordation Services  
P.O. Box 1450  
Alexandria, VA 22313-1450

**PATENT**  
**REEL: 050746 FRAME: 0297**

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, and subject to the reservations stated in the Patent Assignment Agreement Reference No. L159400 between the parties with an effective time and date of 11:59pm United States Eastern Time on 28 Sept., 2015 ("Effective Time and Date") ("Patent Assignment Agreement"), International Business Machines Corporation a New York corporation having a place of business at 1 New Orchard Road, Armonk, NY 10504-1722, (hereinafter "ASSIGNOR"), hereby grants and assigns to BUYER, a Delaware corporation having a place of business at 63 Market Street, Venice, CA 90291 (hereinafter "ASSIGNEE"), all of IBM's right, title and interest in and to the United States Letter Patents identified in Exhibit A-I and Exhibit A-II and the Non-United States Letter Patents identified in Exhibit B-II and the United States patent applications and the Non-United States patent applications identified in Exhibit C-II, attached hereto, (hereinafter, collectively, "ASSIGNED PATENTS"), 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, including all damages for infringement of any of the Assigned Patents accruing on and after the Effective Time & Date and damages for any infringement prior to the Effective Time & Date to the extent not recovered by the ASSIGNOR and the sole right to sue therefore under such Assigned Patents, for the full term or terms of all such ASSIGNED PATENTS, subject to all rights granted under the ASSIGNED PATENTS to third parties prior to said Effective Time & Date.

ASSIGNOR hereby reserves and retains, for the benefit of itself and its subsidiaries and its and their successors and assigns, the rights and licenses set forth in the Patent Assignment Agreement.

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

Assignor:

IBM

Signature:



Printed Name: CYNTHIA SEAL

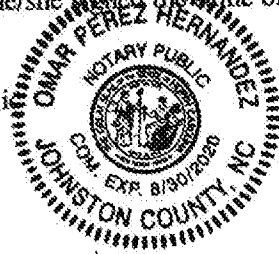
Title: SENIOR COUNSEL

Date: 12-16-2015

North Carolina  
State of ~~New York~~ )  
                                  ) S.S.  
County of Westchester )  
                                  WAKE

Before me this 16 day of December, 2015, personally appeared CYNTHIA SEAR 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.

[Signature] Notary Public



ACCEPTED by Assignee:

Assignee: Snapchat, Inc.

Signature: [Signature]  
Printed Name: LUKE YEH

Title: DIRECTOR OF IP

Date: 12/17/15

State of California )  
                                  ) S.S.  
County of Los Angeles)

Before me this 17 day of December, 2015, personally appeared LUKE YEH 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.

[Signature] Notary Public

ACKNOWLEDGMENT

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 )  
County of Los Angeles )  
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On December 17, 2015 before me, Michelle Conant Sanchez, Notary Public,

personally appeared, LUKE YEH -----

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which 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.

*Michelle Conant Sanchez*  
-----  
Signature(Seal)



**EXHIBIT A-I**

**LISTED PATENTS (United States)**

<b>IBM Docket Number</b>	<b>Country</b>	<b>Patent Number</b>	<b>Application Number</b>	<b>Filing Date</b>	<b>Issue Date</b>
AUS919990202US1	US	6636247	09/494875	1/31/2000	10/21/2003

**END OF EXHIBIT A-I**

**EXHIBIT A-II**

**LISTED PATENTS (United States)**

IBM Docket Number	Country	Patent Number	Application Number	Filing Date	Issue Date
RSW919970049US1	US	5861883	08/855244	5/13/1997	1/19/1999
AUS919950027US1	US	6006018	08/538682	10/3/1995	12/21/1999
RPS919990083US1	US	6012088	08/762737	12/10/1996	1/4/2000
AUS919970580US1	US	6098102	08/974411	11/19/1997	8/1/2000
RSW919980058US1	US	6105067	09/092928	6/5/1998	8/15/2000
*YOR919970306US1	US	6122666	09/027832	2/23/1998	9/19/2000
YOR919970190US1	US	6182113	08/931796	9/16/1997	1/30/2001
AUS919980422US1	US	6334149	09/219248	12/22/1998	12/25/2001
YOR919970306US2	US	6360273	09/603477	6/23/2000	3/19/2002
AUS919990366US1	US	6487601	09/409592	9/30/1999	11/26/2002
AUS919990769US1	US	6631463	09/436103	11/8/1999	10/7/2003
YOR919990515US1	US	6632741	09/619664	7/19/2000	10/14/2003
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AUS919980398US1	US	6637020	09/204891	12/3/1998	10/21/2003
YOR919980263US1	US	6643684	09/168248	10/8/1998	11/4/2003
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ROC920000019US1	US	6665710	09/568678	5/11/2000	12/16/2003
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AUS920000064US1	US	6684238	09/553808	4/21/2000	1/27/2004
AUS920000193US1	US	6714930	09/583409	5/31/2000	3/30/2004
YOR920000237US1	US	6720860	09/608110	6/30/2000	4/13/2004
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FR919990031US1	US	6779032	09/604594	6/27/2000	8/17/2004
AUS920000262US1	US	6785723	09/599178	6/22/2000	8/31/2004
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AUS920020575US1	US	7062536	10/268288	10/10/2002	6/13/2006
CN920020005US1	US	7136649	10/633239	8/1/2003	11/14/2006
LOT919990049US1	US	7237002	09/477471	1/4/2000	6/26/2007
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*AUS920030565US1	US	7269794	10/660073	9/11/2003	9/11/2007
YOR920040439US1	US	7277016	10/946975	9/22/2004	10/2/2007



STL920000116US1	US	7280658	09/872077	6/1/2001	10/9/2007
SVL920105309US2	US	7281160	10/776031	2/10/2004	10/9/2007
JP920000140US1	US	7290029	09/884366	6/19/2001	10/30/2007
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YOR920030495US1	US	7302053	10/725309	12/1/2003	11/27/2007
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AUS920030088US1	US	7305627	10/405404	4/1/2003	12/4/2007
BOC920030006US1	US	7308082	10/626108	7/24/2003	12/11/2007
LOT920020055US1	US	7310658	10/330771	12/27/2002	12/18/2007
CA920020022US1	US	7359990	10/285996	10/31/2002	4/15/2008
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BOC920020003US1	US	7376703	10/237650	9/9/2002	5/20/2008
AUS920070661US1	US	7386595	12/027015	2/6/2008	6/10/2008
AUS920010780US1	US	7394346	10/046953	1/15/2002	7/1/2008
AUS920040104US1	US	7406505	10/834496	4/29/2004	7/29/2008
AUS920030775US1	US	7409425	10/713735	11/13/2003	8/5/2008
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FR920080177US1	US	8375309	12/349014	1/6/2009	2/12/2013
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AUS920060320US1	US	8527905	11/422694	6/7/2006	9/3/2013
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AUS920040191US1	US	8631077	10/897230	7/22/2004	1/14/2014
RSW920020071US1	US	8631142	10/213858	8/7/2002	1/14/2014
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IN920090131US1	US	8843567	12/627219	11/30/2009	9/23/2014
RSW920110134US2	US	8856254	13/873915	4/30/2013	10/7/2014
RSW920080163US1	US	8862519	12/344759	12/29/2008	10/14/2014
GB920100072US1	US	8868744	13/281542	10/26/2011	10/21/2014
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RSW920120030US1	US	8904313	13/480213	5/24/2012	12/2/2014
ARC920090070US1	US	8914368	12/752016	3/31/2010	12/16/2014
AUS920050892US2	US	8938507	12/125204	5/22/2008	1/20/2015
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ARC920120004US1	US	8990327	13/487855	6/4/2012	3/24/2015
ARC920120004US2	US	9002960	13/593604	8/24/2012	4/7/2015
CAM920100010US1	US	9009237	12/827041	6/30/2010	4/14/2015
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GB920080313US1	US	9037655	12/778728	5/12/2010	5/19/2015
AUS920040550US2	US	9043406	12/062025	4/3/2008	5/26/2015
TW92010014US1	US	9043412	13/250805	9/30/2011	5/26/2015
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BOC920050002US1	US	9094425	11/101131	4/7/2005	7/28/2015
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END920080154US2	US	9106598	14/454878	8/8/2014	8/11/2015
AUS920010352US2	US	9143382	13/409969	3/1/2012	9/22/2015

\* Identifies patents or applications that are lapsed or abandoned.

END OF EXHIBIT A-II

**EXHIBIT B-II**

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*RSW919970049BE1	BE	0878768	98303229.3	4/27/1998	2/27/2002
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POL920020061CN1	CN	ZI.200410034133.7	200410034133.7	4/22/2004	1/23/2008
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CN920020005CN1	CN	ZI.02129435.6	02129435.6	8/23/2002	1/17/2007
YOR920040439CN1	CN	ZI.200510087167.7	200510087167.7	7/27/2005	3/12/2008
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*BOC920000023EP1	EP	1161047	01000181.6	5/23/2001	3/29/2006
*RSW919970049EP1	EP	0878768	98303229.3	4/27/1998	2/27/2002

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*JP920070043JP1	JP	4897611	2007-210541	8/10/2007	1/6/2012
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AUS920050829JP1	JP	5159103	2006-348828	12/26/2006	12/21/2012
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*JP919990090KR1	KR	443806	2001-7016064	4/7/2000	7/30/2004
*GB920040022KR1	KR	992027	2007-7005937	9/14/2005	10/29/2010
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*LOT920050118KR1	KR	974148	2006-0105199	10/27/2006	7/29/2010
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*RSW920020085TW1	TW	1236256	92117399	6/26/2003	7/11/2005
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*IL920040024TW1	TW	1363971	94124518	7/20/2005	5/11/2012
*JP919990090TW1	TW	NI-142748	89109251	5/15/2000	2/8/2002

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**END OF EXHIBIT B-II**

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IBM Docket Number	Country	Application Number	Filing Date	Published Application Number
*AUS920040232US2	US	12/055581	3/26/2008	US20080177851A1
*AUS920040550US1	US	10/965174	10/14/2004	US20060085752A1
*AUS920050829US1	US	11/337262	1/20/2006	US20070174395A1
*AUS920050892US1	US	11/337261	1/20/2006	US20070174417A1
AUS920050892US3	US	14/552526	11/25/2014	US20150081827A1
AUS920060320US2	US	13/922932	6/20/2013	US20130283150A1
*AUS920070661US3	US	12/203373	9/3/2008	US20090198783A1
CAM920100001US2	US	14/094775	12/2/2013	US20140089897A1
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FR920080022US2	US	14/753200	6/29/2015	US20150191083A1
FR920080177US2	US	13/733512	1/3/2013	US20130124658A1
GB920040022US3	US	13/434090	3/29/2012	US20120185778A1
GB920070118US3	US	14/641113	3/6/2015	US20150180813A1
GB920100072US2	US	13/416916	3/9/2012	US20120173647A1
RSW920040144US3	US	14/512380	10/10/2014	US20150032832A1
RSW920080381US2	US	13/546498	7/11/2012	US20120284611A1
*STL919990076US1	US	60/140761	6/24/1999	
*SVL920105309US1	US	60/446364	2/10/2003	
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*YOR920060052US1	US	11/429607	5/5/2006	US20070260693A1

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*CA920020022CA1	CA	2391719	6/26/2002	
ARC920120004CN1	CN	201310216946.7	6/3/2013	CN103455545A
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*RSW920070290CN1	CN	200810165819.8	9/23/2008	CN101447951A
*RSW920040195CN1	CN	200680001229.0	1/3/2006	CN101061485A
*POU920020088CN1	CN	03149816.7	7/25/2003	CN1477575A
GB920070118CN1	CN	200980103028.5	1/19/2009	CN101926138A
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*AUS920040550CN1	CN	200510113711.0	10/14/2005	CN1761201A
*AUS920050711CN1	CN	200710008219.6	1/25/2007	CN101018214A
*BOC920060087CN1	CN	200710199962.4	11/14/2007	CN101193080A
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\* Identifies patents or applications that are lapsed or abandoned.

**END OF EXHIBIT C-II**