

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
<b>Name</b>		<b>Execution Date</b>
STMICROELECTRONICS INTERNATIONAL N.V.		03/24/2017
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	RPX CORPORATION	
<b>Street Address:</b>	ONE MARKET PLAZA	
<b>Internal Address:</b>	STEUART TOWER, SUITE 800	
<b>City:</b>	SAN FRANCISCO	
<b>State/Country:</b>	CALIFORNIA	
<b>Postal Code:</b>	94105	
<b>PROPERTY NUMBERS Total: 19</b>		
<b>Property Type</b>	<b>Number</b>	
Patent Number:	6741604	
Patent Number:	7113549	
Patent Number:	6721373	
Patent Number:	6920194	
Patent Number:	6363128	
Patent Number:	6456649	
Patent Number:	6466629	
Patent Number:	6038261	
Patent Number:	6160820	
Patent Number:	6343024	
Patent Number:	6359926	
Patent Number:	6438174	
Patent Number:	6538986	
Patent Number:	6751255	
Patent Number:	6751261	
Patent Number:	7346012	
Application Number:	60165222	
Patent Number:	6198778	
Application Number:	09945365	

**CORRESPONDENCE DATA****Fax Number:** (858)430-2427

*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:** 858-724-2450**Email:** scott@mdiplaw.net**Correspondent Name:** MUSICK DAVISON LLP**Address Line 1:** 12636 HIGH BLUFF DRIVE**Address Line 2:** SUITE 400**Address Line 4:** SAN DIEGO, CALIFORNIA 92130

<b>ATTORNEY DOCKET NUMBER:</b>	RPX.025
<b>NAME OF SUBMITTER:</b>	SCOTT H. DAVISON
<b>SIGNATURE:</b>	/Scott H Davison/
<b>DATE SIGNED:</b>	04/11/2017

**Total Attachments: 11**

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## EXHIBIT A

### Patent Assignment

This patent assignment (this "**Assignment**") is entered into as of March 24th, 2017 ("Effective Date") by and between STMicroelectronics International N.V., a Dutch company acting for the purpose of this agreement through its Swiss branch located at 39 Chemin du Champ-des-Filles, 1228 Plan les Ouates, Geneva, Switzerland ("**Assignor**"), and RPX Corporation, located at One Market Plaza, Steuart Tower, Suite 800, San Francisco, CA 94105 ("**Assignee**").

Whereas, the Assignor and Assignee have entered into a certain Patent Purchase Agreement dated March 24th, 2017 under which, among other things, Assignor assigns to Assignee all right, title and interest in and to the patents and applications listed in (hereinafter the "**Assigned Patent Rights**") Schedules 1 and 2.

For good and valuable consideration, the receipt of which is hereby acknowledged, the Parties agree as follows:

(a) Assignor, does hereby irrevocably as of the date of this Assignment sell, assign, transfer, and convey unto Assignee:

- (i) all of Assignor's right, title and interest throughout the world in and to the issued patents and pending patent applications identified on Schedule 1 and Schedule 2 attached hereto and any issued patent or patent application that directly or indirectly claims or is amended to claim priority to any of the above, in whole or in part;
- (ii) to the extent not included in (i), all issued patents, rights to inventions and pending and future applications for patents under U.S. law or regulation or of any foreign country with respect to the patentable inventions from which such Listed Patents arise, including without limitation utility patents, utility models, design patents, invention certificates, provisionals, continuations, divisionals, continuations-in-part, reexaminations, reissues, extensions and renewals, in all countries of the world, as well as any patents and patent applications to which any of the Listed Patents or any of the foregoing directly or indirectly claim priority, in whole or in part;
- (iii) all rights to prosecute such patent applications as well as to claim and receive the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, including the right to invoke and claim such right of priority without further written or oral authorization (subcategories (i), (ii), and (iii) collectively, the "Assigned Patent Rights");
- (iv) any causes of action under the Assigned Patent Rights including the rights to sue for infringement and recover damages for past, present and future infringement of any of the Assigned Patent Rights and seek other remedies of any kind, including injunctive relief, for past, current and future infringement, misappropriation or other violations of any rights under the Assigned Patent Rights; and

(v) all rights to collect royalties or other payments under or on account of the Assigned Patent Rights (excluding any royalties or other payments owed to Seller under agreements entered into prior to the Effective date).



(b) Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models or other governmental grants or issuances that may be granted upon any of the Assigned Patent Rights in the name of Assignee, as the assignee to the entire interest therein.

(c) Seller hereby grants Buyer perpetual and irrevocable power of attorney to execute and file on its behalf any assignments or other documents deemed necessary to protect or perfect its rights to the Assigned Patent Rights assigned herein.

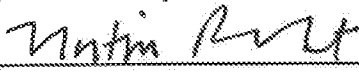
The terms and conditions of this Assignment will inure to the benefit of Buyer, its successors, assigns, and other legal representatives and will be binding upon Seller, its successors, assigns, and other legal representatives.

IN WITNESS WHEREOF, the parties hereto have caused this Assignment to be executed as of the Effective Date. The individuals signing for the parties represent and warrant that he or she has authority to sign for and enter into this Assignment on behalf of the respective parties.

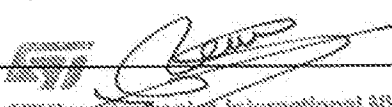
**Seller: STMicroelectronics International N.V.**

By:   
Name:  STMicroelectronics International NV  
Carlo Ferro  
Title: Executive Vice President  
Chief Financial Officer  
Finance, Legal and Infrastructures & Services  
Date: \_\_\_\_\_

**Buyer: RPX Corporation**

By:   
Name: Martin Roberts  
Title: CEO  
Date: 4/5/17

**Seller: STMicroelectronics International N.V.**

By:   
Name: STMicroelectronics International NV  
Georges Fassin  
Title: Executive Vice President  
Date: 17/03/2017

# SCHEDULE 1

## PATENTS AND PATENT APPLICATIONS

Family	Pat./Pub. No.	App. No	Country	Title	Status	Filed Date
1	US6741604	09451541	US	METHOD AND APPARATUS FOR ADSL TRANSMISSION IN THE PRESENCE OF LOW-FREQUENCY SERVICES	Granted	01 Dec 1999
2	DE1062760 DE69922176	99907994.0 DE1999622176	DE	IMPROVEMENTS IN, OR RELATING TO, VDSL	Granted	17 Feb 1999
2	US7113549	09622523	US	IMPROVEMENTS IN, OR RELATING TO, VDSL	Granted	17 Feb 1999
3	US6721373	09538572	US	A MULTI-TONE RECEIVER AND A METHOD FOR OPERATING THE SAME	Granted	29 Mar 2000
4	US6920194	09866870	US	METHOD AND SYSTEM FOR DETECTING, TIMING, AND CORRECTING IMPULSE NOISE	Granted	29 May 2001
5	DE0922342 DE69718799	97939276.8 DE1997618799	DE	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Granted	01 Sep 1997
5	FR0922342	97939276.8	FR	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Granted	01 Sep 1997
5	GB0922342	97939276.8	GB	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Granted	01 Sep 1997
5	JP4447056	1998051255 4T	JP	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Granted	01 Sep 1997
5	US6363128	09147746	US	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Granted	01 Sep 1997
6	JP4130996	1998051255 8T	JP	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Granted	01 Sep 1997
6	US6456649	09147743	US	MULTI-CARRIER TRANSMISSION SYSTEMS	Granted	01 Sep 1997
7	JP4130995	1998051255 7T	JP	CLIPPING INFORMATION RECOVERY AT RECEIVER	Granted	01 Sep 1997

Family	Pat./Pub. No.	App. No	Country	Title	Status	Filed Date
7	US6466629	09147756	US	MULTI-CARRIER TRANSMISSION SYSTEMS	Granted	01 Sep 1997
8	US6038261	09001297	US	METHOD AND DEVICE FOR SETUP OF CLIPPING NOISE OF A MULTICARRIER MODULATION	Granted	31 Dec 1997
9	US6160820	09147755	US	MULTI-CARRIER TRANSMISSION SYSTEMS	Granted	01 Sep 1997
10	US6343024	09597599	US	SELF-ADJUSTABLE IMPEDANCE LINE DRIVER WITH HYBRID	Granted	20 Jun 2000
11	DE0923822	97937936.9	DE	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Granted	01 Sep 1997
11	FR0923822	97937936.9	FR	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Granted	01 Sep 1997
11	GB0923822	97937936.9	GB	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Granted	01 Sep 1997
11	JP4016125	1998051255 6T	JP	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Granted	01 Sep 1997
11	US6359926	09147748	US	MULTI-CARRIER TRANSMISSION SYSTEMS	Granted	01 Sep 1997
12	DE0922345 DE69717285	97939279.2 DE19976172 85	DE	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Granted	01 Sep 1997
12	FR0922345	97939279.2	FR	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Granted	01 Sep 1997
12	GB0922345	97939279.2	GB	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Granted	01 Sep 1997
12	JP4016126	1998051256 1T	JP	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Granted	01 Sep 1997
12	US6438174	09147742	US	MULTI-CARRIER TRANSMISSION SYSTEMS	Granted	01 Sep 1997
13	FR0923824	97937938.5	FR	IMPROVEMENTS IN, OR RELATING TO, MULTI-	Granted	01 Sep 1997

Family	Pat./Pub. No.	App. No	Country	Title	Status	Filed Date
				CARRIER TRANSMISSION SYSTEMS		
13	GB0923824	97937938.5	GB	IMPROVEMENTS IN, OR RELATING TO, MULTI- CARRIER TRANSMISSION SYSTEMS	Granted	01 Sep 1997
13	US6538986	09147745	US	CONTROL CHANNELS FOR TELECOMMUNICATIONS TRANSMISSION SYSTEMS	Granted	01 Sep 1997
14	US6751255	09521495	US	DECISION FEEDBACK ANALYZER WITH FILTER	Granted	09 Mar 2000
15	FR0920758	98908382.9	FR	IMPROVEMENTS IN OR RELATING TO SYNCHRONISATION	Granted	27 Feb 1998
15	GB0920758	98908382.9	GB	IMPROVEMENTS IN OR RELATING TO SYNCHRONISATION	Granted	27 Feb 1998
15	US6751261	09147230	US	SYNCHRONISATION	Granted	27 Feb 1998
16	US7346012	10318423	US	TRANSCEIVER WITH ACCELERATED ECHO CANCELLER CONVERGENCE	Granted	13 Dec 2002

## SCHEDULE 2

### PATENTS AND PATENT APPLICATIONS

Family	Pat./Pub. No.	App. No	Country	Title	Status	Filed Date
1		133164	IL	METHOD AND APPARATUS FOR ADSL TRANSMISSION IN THE PRESENCE OF LOW-FREQUENCY SERVICES	Abandoned	26 Nov 1999
1		60165222	US	METHOD AND APPARATUS FOR ADSL TRANSMISSION IN THE PRESENCE OF LOW-FREQUENCY SERVICES	Expired	12 Nov 1999
2	EP1062760	99907994.0	EP	IMPROVEMENTS IN, OR RELATING TO, VDSL	End of Procedure	17 Feb 1999
2	FR1062760	99907994.0	FR	IMPROVEMENTS IN, OR RELATING TO, VDSL	Abandoned	17 Feb 1999
2	GB1062760	99907994.0	GB	IMPROVEMENTS IN, OR RELATING TO, VDSL	Abandoned	17 Feb 1999
2		98011505	SE	IMPROVEMENTS IN, OR RELATING TO, VDSL	Abandoned	01 Apr 1998
2		98005390	SE	IMPROVEMENTS IN, OR RELATING TO, VDSL	Abandoned	21 Feb 1998
2	WO9943123	SE9900210	PCT	IMPROVEMENTS IN, OR RELATING TO, VDSL	End of Procedure	17-Feb-1999
5	EP0922342	97939276.8	EP	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	End of Procedure	01 Sep 1997
5	WO9810547	SE9701452	PCT	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	End of Procedure	01 Sep 1997
5		19990769	NO	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Abandoned	01 Sep 1997
5		96031893	SE	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Abandoned	02 Sep 1996
6	DE0922343 DE69717122	97939277.6	DE	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION	Abandoned	01 Sep 1997

Family	Pat./Pub. No.	App. No	Country	Title	Status	Filed Date
				SYSTEMS		
6	EP0922343	97939277.6	EP	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	End of Procedure	01 Sep 1997
6	FR0922343	97939277.6	FR	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Abandoned	01 Sep 1997
6	GB0922343	97939277.6	GB	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Abandoned	01 Sep 1997
6	WO9810551	SE9701456	PCT	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	End of Procedure	01 Sep 1997
6		19990773	NO	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Abandoned	01 Sep 1997
6		96031935	SE	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Abandoned	02 Sep 1996
7	DE0923823 DE69717128	97937937.7	DE	CLIPPING INFORMATION RECOVERY AT RECEIVER	Abandoned	01 Sep 1997
7	EP0923823	97937937.7	EP	CLIPPING INFORMATION RECOVERY AT RECEIVER	End of Procedure	01 Sep 1997
7	FR0923823	97937937.7	FR	CLIPPING INFORMATION RECOVERY AT RECEIVER	Abandoned	01 Sep 1997
7	GB0923823	97937937.7	GB	CLIPPING INFORMATION RECOVERY AT RECEIVER	Abandoned	01 Sep 1997
7	WO9810550	SE9701455	PCT	CLIPPING INFORMATION RECOVERY AT	End of Procedure	01 Sep 1997

Family	Pat./Pub. No.	App. No	Country	Title	Status	Filed Date
				RECEIVER		
7		19990772	NO	CLIPPING INFORMATION RECOVERY AT RECEIVER	Abandoned	01 Sep 1997
7		96031927	SE	CLIPPING INFORMATION RECOVERY AT RECEIVER	Abandoned	02 Sep 1996
8	DE095030 6 DE697337 68	97953982.2	DE	METHOD AND DEVICE FOR SETUP OF CLIPPING NOISE OF A MULTICARRIER MODULATION	Abandoned	30 Dec 1997
8	EP0950306	97953982.2	EP	METHOD AND DEVICE FOR SETUP OF CLIPPING NOISE OF A MULTICARRIER MODULATION	End of Procedure	30 Dec 1997
8	FR2758030	9616379	FR	METHOD AND DEVICE FOR SETUP OF CLIPPING NOISE OF A MULTICARRIER MODULATION	Abandoned	31 Dec 1996
8	FR0950306	97953982.2	FR	METHOD AND DEVICE FOR SETUP OF CLIPPING NOISE OF A MULTICARRIER MODULATION	Abandoned	30 Dec 1997
8	GB095030 6	97953982.2	GB	METHOD AND DEVICE FOR SETUP OF CLIPPING NOISE OF A MULTICARRIER MODULATION	Abandoned	30 Dec 1997
8	IT0950306	97953982.2	IT	METHOD AND DEVICE FOR SETUP OF CLIPPING NOISE OF A MULTICARRIER MODULATION	Abandoned	30 Dec 1997
8	JP3278850	199805297 22T	JP	METHOD AND DEVICE FOR SETUP OF CLIPPING NOISE OF A MULTICARRIER MODULATION	Abandoned	30 Dec 1997
8	WO982999 6	FR9702465	PCT	METHOD AND DEVICE FOR SETUP OF CLIPPING NOISE OF A MULTICARRIER MODULATION	End of Procedure	30 Dec 1997
8	US619877	09392713	US	METHOD AND DEVICE	Abandoned	09 Sep 1999

Family	Pat./Pub. No.	App. No	Country	Title	Status	Filed Date
	8			FOR SETUP OF CLIPPING NOISE OF A MULTICARRIER MODULATION		
8	CA2276332	CA 2276332	CA	METHOD AND DEVICE FOR FORMATTING A CLIPPING NOISE IN A MULTICARRIER MODULATION	Abandoned	30 Dec 1997
8	AU5770598	1998057705	AU	Method and device for formatting a clipping noise in a multicarrier modulation	Abandoned	30 Dec 1997
9	EP0922341	97937939.3	EP	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	End of Procedure	01 Sep 1997
9	GB0922341	97937939.3	GB	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Abandoned	01 Sep 1997
9	JP2001500681T	19980512563T	JP	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Abandoned	01 Sep 1997
9	WO9810556	SE9701461	PCT	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	End of Procedure	01 Sep 1997
9		19990778	NO	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Abandoned	01 Sep 1997
9		96031984	SE	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Abandoned	02 Sep 1996
10	EP1168740	01305155.2	EP	SELF-ADJUSTABLE IMPEDANCE LINE DRIVER WITH HYBRID	Abandoned	13 Jun 2001
10		20010185381	JP	SELF-ADJUSTABLE IMPEDANCE LINE DRIVER WITH HYBRID	Abandoned	19 Jun 2001
10		09945365	US	SELF-ADJUSTABLE IMPEDANCE LINE	Abandoned	31 Aug 2001

Family	Pat./Pub. No.	App. No	Country	Title	Status	Filed Date
				DRIVER WITH HYBRID		
11	EP0923822	97937936.9	EP	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	End of Procedure	01 Sep 1997
11	WO9810549	SE9701454	PCT	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	End of Procedure	01 Sep 1997
11		19990771	NO	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Abandoned	01 Sep 1997
11		96031919	SE	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Abandoned	02 Sep 1996
12	EP0922345	97939279.2	EP	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	End of Procedure	01 Sep 1997
12	WO9810554	SE9701459	PCT	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	End of Procedure	01 Sep 1997
12		19990776	NO	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Abandoned	01 Sep 1997
12		96031968	SE	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Abandoned	02 Sep 1996
13	DE0923824 DE69722415	97937938.5	DE	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Abandoned	01 Sep 1997
13	EP0923824	97937938.5	EP	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION	End of Procedure	01 Sep 1997

Family	Pat./Pub. No.	App. No	Country	Title	Status	Filed Date
				SYSTEMS		
13	JP2000517512T	19980512560T	JP	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Abandoned	01 Sep 1997
13	WO9810553	SE9701458	PCT	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	End of Procedure	01 Sep 1997
13		19990775	NO	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Abandoned	01 Sep 1997
13		96031950	SE	IMPROVEMENTS IN, OR RELATING TO, MULTI-CARRIER TRANSMISSION SYSTEMS	Abandoned	02 Sep 1996
15	EP0920758	98908382.9	EP	IMPROVEMENTS IN OR RELATING TO SYNCHRONISATION	End of Procedure	27 Feb 1998
15	WO9839872	1998SE00353	PCT	IMPROVEMENTS IN OR RELATING TO SYNCHRONISATION	End of Procedure	27 Feb 1998
15	SE9700784	SE19970000784	SE	Using adaptive equalizer parameters for sampling clock oscillator control in an ofdm system	Abandoned	03 Mar 1997
16	EP1429470	03028714.8	EP	TRANSCIEVER WITH ACCELERATED ECHO CANCELLER CONVERGENCE	Abandoned	12 Dec 2003