

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2840262

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
RENESAS ELECTRONICS CORPORATION	10/01/2013
RENESAS MOBILE CORPORATION	10/01/2013
RECEIVING PARTY DATA	
Name:	BROADCOM INTERNATIONAL LIMITED
Street Address:	122 MARY STREET
Internal Address:	4TH FLOOR, ZEPHYR HOUSE
City:	GRAND CAYMAN
State/Country:	CAYMAN ISLANDS
Postal Code:	1107
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13348042
CORRESPONDENCE DATA	
Fax Number:	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Email:	patent@stantonip.com
Correspondent Name:	STANTON IP LAW
Address Line 1:	433 SOUTH MAIN STREET
Address Line 4:	WEST HARTFORD, CONNECTICUT 06110
ATTORNEY DOCKET NUMBER:	12.0561US01
NAME OF SUBMITTER:	JERRY STANTON
SIGNATURE:	/Jerry Stanton/
DATE SIGNED:	05/02/2014
Total Attachments: 67	
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PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT ("Patent Assignment") is made and entered into as of October 1, 2013 (the "Effective Date"), by and between RENESAS ELECTRONICS CORPORATION, a Japanese corporation ("REL"), and RENESAS MOBILE CORPORATION, a Japanese corporation and a wholly owned subsidiary of REL ("RMC" and, collectively with REL, "Assignors" and each individually, an "Assignor") and BROADCOM INTERNATIONAL LIMITED, a limited company incorporated in the Cayman Islands ("Assignee").

WHEREAS, Assignors and Assignee have entered into an Intellectual Property Assignment, dated as of the date hereof, pursuant to which Assignors have agreed to assign to Assignee the Patents (as defined below).

NOW, THEREFORE, in consideration of the premises and the mutual representations, warranties, covenants and agreements set forth in this Patent Assignment and in the Intellectual Property Assignment, the parties agree as follows:

1. Patents.

"Patents" means the patents and patent applications listed on Attachment A-1 hereto, and any continuations, divisionals, continuations-in-part, provisionals and other applications that claim priority from any of such patents and patent applications and any patents issuing on any of the foregoing, and any reissues, reexaminations, substitutions, renewals and extensions of any of the foregoing.

2. Assignment.

Each Assignor hereby assigns, transfers and conveys to Assignee all of its rights, title and interest in and to the Patents, and all rights, claims and privileges pertaining to the Patents, including, without limitation, rights to the underlying inventions, the right to prosecute and maintain the Patents, and the right to sue and recover damages for past, present and future infringement of any of the Patents.

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IN WITNESS WHEREOF, Assignors and Assignee have caused this Patent Assignment to be signed and executed by the undersigned officers thereunto duly authorized as of the Effective Date.

RENESAS ELECTRONICS CORPORATION

By: 佐田 久男

Name: Hisao Sakata

Title: Chairman & CEO

09/30/2013

RENESAS MOBILE CORPORATION

By: Hideaki Chaki

Name: Hideaki Chaki

Title: President & CEO

09/30/2013

BROADCOM INTERNATIONAL LIMITED

By: _____

Name: _____

Title: _____

大橋印

IN WITNESS WHEREOF, Assignors and Assignee have caused this Patent Assignment to be signed and executed by the undersigned officers thereunto duly authorized as of the Effective Date.

RENESAS ELECTRONICS CORPORATION

By: _____

Name: _____

Title: _____

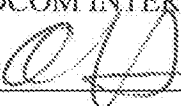
RENESAS MOBILE CORPORATION

By: _____

Name: _____

Title: _____

BROADCOM INTERNATIONAL LIMITED

By:  _____

Name: Eric Brant

Title: Director

ACKNOWLEDGMENT

State of California
County of Orange)

On September 24, 2013 before me, Melinda Sue Waggoner, Notary Public
(insert name and title of the officer)

personally appeared Eric Brandt,
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.

Signature  (Seal)



[Insert Notary Public acknowledgement]

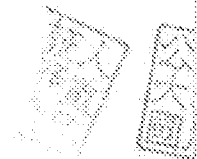
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Attachment A-1



Case No.	Category	Status	Filing Date	Examination Date	Application Number	Publication Number	Publication Date	Abstract
RM115152	US01	Classed	24 Aug 2011	28 Aug 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115153	US01	Filed	13 Mar 2012	24 Aug 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115154	US01	Filed	7 Oct 2011	7 Oct 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115155	US01	POA received	7 Oct 2011	7 Oct 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115156	US01	Filed	26 Jul 2011	26 Jul 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115157	US01	Filed	26 Jul 2011	26 Jul 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115158	US01	POA received	26 Jul 2011	26 Jul 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115159	US01	Filed	26 Jul 2011	26 Jul 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115160	US01	Filed	26 Jul 2011	26 Jul 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115161	US01	Filed	26 Jul 2011	26 Jul 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115162	US01	Filed	26 Jul 2011	26 Jul 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115163	US01	Filed	26 Jul 2011	26 Jul 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115164	US01	Filed	26 Jul 2011	26 Jul 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115165	US01	Filed	26 Jul 2011	26 Jul 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115166	US01	Filed	26 Jul 2011	26 Jul 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115167	US01	Filed	26 Jul 2011	26 Jul 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115168	US01	Filed	26 Jul 2011	26 Jul 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115169	US01	Filed	26 Jul 2011	26 Jul 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115170	US01	Filed	26 Jul 2011	26 Jul 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115171	US01	Filed	26 Jul 2011	26 Jul 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115172	US01	Filed	26 Jul 2011	26 Jul 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115173	US01	Filed	26 Jul 2011	26 Jul 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115174	US01	Filed	26 Jul 2011	26 Jul 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115175	US01	Filed	26 Jul 2011	26 Jul 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115176	US01	Filed	26 Jul 2011	26 Jul 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115177	US01	Filed	26 Jul 2011	26 Jul 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115178	US01	Filed	26 Jul 2011	26 Jul 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation
RM115179	US01	Filed	26 Jul 2011	26 Jul 2011	US 12/152,799	US20130051386	28 Feb 2013	Channel Through Time Varying Power Allocation

Schedule 9.3(4)
Transferred IP
Patent Assets



PATENT

REEL: 032844 FRAME: 0000

Case #	Priority	Status	Filing date	Examined priority date	Application number	Publication number	Publication date	Priority number	Abstract
RM115059	WO/01	Filed	1 Sep 2012	9 Sep 2011	PC/T18/2012/054615	WO/2013/030005	14 Mar 2013		Flexible measurement cycle for network elements
RM115058	Family	Filed	1 Apr 2011	1 Apr 2011					Flexible measurement cycle for network elements
RM115058	GB01	Granted	1 Apr 2011	1 Apr 2011	GB2448770				Flexible measurement cycle for network elements
RM115058	GB02	Filed	20 Jan 2012	1 Apr 2011	GB2448770				Flexible measurement cycle for network elements
RM115058	US01	Filed	1 Apr 2011	1 Apr 2011	US2011/025747				Flexible measurement cycle for network elements
RM115057	Family	Filed	13 May 2011	13 May 2011					Methods for interference reduction in LA TDD network with flexible TDD configuration
RM115057	WO/01	PCTA received	13 May 2011	13 May 2011	PC/T18/2011/074005	WO/2012/159123	22 Mar 2012		Methods for interference reduction in LA TDD network with flexible TDD configuration
RM115054	Family	Filed	15 Jun 2011	15 Jun 2011					Radio Link Monitoring and Failure Handling in Network Controlled Device-to-Device Communication
RM115054	GB01	Filed	13 Jun 2011	13 Jun 2011	GB2448770				Radio Link Monitoring and Failure Handling in Network Controlled Device-to-Device Communication
RM115054	US01	Filed	15 Jun 2011	15 Jun 2011	US2011/00032479				Radio Link Monitoring and Failure Handling in Network Controlled Device-to-Device Communication
RM115054	WO/01	Filed	15 Jun 2011	15 Jun 2011	PC/T18/2011/074005	WO/2012/172513	20 Dec 2012		Radio Link Monitoring and Failure Handling in Network Controlled Device-to-Device Communication
RM115052	Family	Filed	2 Jun 2011	2 Jun 2011					Frequency Hopping LTE-A System on License-Exempt Shared Bands
RM115052	GB01	PCTA received	2 Jun 2011	2 Jun 2011	GB2448770				Frequency Hopping LTE-A System on License-Exempt Shared Bands
RM115052	US01	Filed	2 Jun 2011	2 Jun 2011	US2011/0207744				Frequency Hopping LTE-A System on License-Exempt Shared Bands
RM115052	US02	Granted	17 Oct 2011	2 Jun 2011	US2011/0207744				Frequency Hopping LTE-A System on License-Exempt Shared Bands
RM115052	WO/01	Filed	1 Jun 2011	2 Jun 2011	PC/T18/2011/074005	WO/2012/172513	20 Dec 2012		Frequency Hopping LTE-A System on License-Exempt Shared Bands
RM115052	US01	Filed	4 Apr 2011	4 Apr 2011	US2011/0207744				Frequency Hopping LTE-A System on License-Exempt Shared Bands
RM115048	Family	Filed	3 May 2011	3 May 2011					OFDM modulation on SSB in cross carrier scheduling case
RM115048	GB01	Granted	3 May 2011	3 May 2011	GB2448770				OFDM modulation on SSB in cross carrier scheduling case
RM115048	US01	Filed	3 May 2011	3 May 2011	US2011/0207744				OFDM modulation on SSB in cross carrier scheduling case
RM115048	US02	Granted	2 Nov 2011	3 May 2011	US2011/0207744				OFDM modulation on SSB in cross carrier scheduling case
RM115048	WO/01	Filed	3 May 2011	3 May 2011	PC/T18/2011/074005	WO/2012/172513	20 Dec 2012		OFDM modulation on SSB in cross carrier scheduling case
RM115047	Family	Filed	24 May 2011	24 May 2011					OFDM modulation on SSB in cross carrier scheduling case
RM115047	GB01	Granted	24 May 2011	24 May 2011	GB2448770				OFDM modulation on SSB in cross carrier scheduling case
RM115047	US01	Filed	24 May 2011	24 May 2011	US2011/0207744				OFDM modulation on SSB in cross carrier scheduling case
RM115047	US02	Granted	24 May 2011	24 May 2011	US2011/0207744				OFDM modulation on SSB in cross carrier scheduling case
RM115047	WO/01	Filed	24 May 2011	24 May 2011	PC/T18/2011/074005	WO/2012/172513	20 Dec 2012		OFDM modulation on SSB in cross carrier scheduling case
RM115046	Family	Filed	19 May 2011	19 May 2011					OFDM modulation on SSB in cross carrier scheduling case
RM115046	GB01	Granted	19 May 2011	19 May 2011	GB2448770				OFDM modulation on SSB in cross carrier scheduling case
RM115046	US01	Filed	19 May 2011	19 May 2011	US2011/0207744				OFDM modulation on SSB in cross carrier scheduling case
RM115046	US02	Granted	19 May 2011	19 May 2011	US2011/0207744				OFDM modulation on SSB in cross carrier scheduling case
RM115046	WO/01	Filed	19 May 2011	19 May 2011	PC/T18/2011/074005	WO/2012/172513	20 Dec 2012		OFDM modulation on SSB in cross carrier scheduling case
RM115043	Family	Filed	15 Apr 2011	15 Apr 2011					OFDM modulation on SSB in cross carrier scheduling case
RM115043	WO/01	Filed	15 Apr 2011	15 Apr 2011	PC/T18/2011/074005	WO/2012/172513	20 Dec 2012		OFDM modulation on SSB in cross carrier scheduling case

Schedule 1.3(4)
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Patent Assets

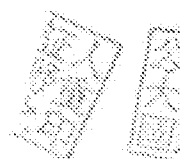


Case ref #	Country	Status	Proposed title	Submission date	Invention date
RM135157	Family	ToEval	On ProSe operation in RRC_Idle	31 Jul 2013	25 Jul 2013
RM135166	Family	ToEval	NAS COUNT failure in inter-system change	25 Jul 2013	24 Jul 2013
RM135163	Family	ToEval	RF sensitivity and data throughput improvement by re-arranging/increasing number of receiver's signal paths	5 Jul 2013	4 Jul 2013
RM135155	Family	InEval	RF current consumption saving at low power level using RF tuning in production	19 Jun 2013	19 Jun 2013
RM135154	Family	InEval	RF current consumption saving using RF test results in production	17 Jun 2013	16 Apr 2013
RM135153	Family	InEval	3GPP conformable balancing method of electrical balance duplexer	20 Jun 2013	28 Mar 2013
RM135151	Family	ToEval	Enhanced SI Transmission	20 Jun 2013	2 Jun 2013
RM135150	Family	InEval	Enhanced Harmonic Rejection Mixer	14 Jun 2013	25 Oct 2012
RM135147	Family	InEval	Power control enhancement to compensate interference level changes in TDM scheduled HSUPA	12 Jun 2013	10 Jun 2013
RM135143	Family	ToEval	Signaling and principle for D2D link setup after discovery signal detection	9 Jun 2013	7 Jun 2013
RM135142	Family	ToEval	Enhanced security design for dual connectivity in small cells	8 Jun 2013	6 Jun 2013
RM135140	Family	ToEval	Enhanced physical layer signaling to support CA in flexible TDD system	8 Jun 2013	28 May 2013
RM135139	Family	InEval	RSSI hopping algorithm in initial synchronization	7 Jun 2013	7 Jun 2013
RM135136	Family	InEval	Accuracy optimization for integrated temperature sensor that uses external NTC	31 May 2013	8 Feb 2012
RM135125	Family	ToEval	Enhanced Mobility Management behavior for establishing PS emergency sessions over existing IMS PDN connection (Revised)	30 Apr 2013	30 Apr 2013
RM135116	Family	ToEval	Restoration of HPLMN connectivity	24 Apr 2013	24 Apr 2013
RM135113	Family	ToEval	Preference indicator to split the UL and DL for macro and small cell scenario with UL/DL power imbalance issue	23 Apr 2013	8 Apr 2013
RM135110	Family	InEval	Energy saving procedure for non-overlapping scenario	16 Apr 2013	14 Apr 2013
RM135107	Family	InEval	Integrated Multi-Lane Clock Tolerance Compensation and De-Skew mechanism for Wireline interfaces	16 Apr 2013	3 Dec 2012
RM135106	Family	ToEval	Mechanism to reduce interference between UEs in flexible TDD systems	8 Apr 2013	8 Apr 2013
RM135102	Family	ToEval	TTI Bundling Collision Handling	3 Apr 2013	2 Apr 2013
RM135085	Family	ToEval	Handling repetition length ambiguity for extreme coverage MTC	12 Mar 2013	12 Mar 2013
RM135081	Family	ToEval	ESM STATUS to network if the network request to deactivate the default bearer of the last PDN connection	6 Mar 2013	26 Feb 2013
RM135071	Family	ToEval	DRX operation for multiple TTI scheduling	1 Mar 2013	15 Feb 2013
RM135060	Family	InEval	UE mobility scheme in mixed dormant and active cells	25 Feb 2013	24 Jan 2013
RM135058	Family	ToEval	Race condition on uplink data/signaling and CSFB mobile terminated call	22 Feb 2013	21 Feb 2013
RM135019	Family	ToEval	CSI measurement configuration with reduced control signaling on NCT	23 Jan 2013	23 Jan 2013
RM126379	Family	ToEval	UE Initiated handover procedure with dual connection in local area network	16 Nov 2012	20 Oct 2012
RM126358	Family	ToEval	New Attach after cause #19 ESM failure	2 Nov 2012	26 Oct 2012
RM135164	Family	InDrafting	Detection of Frequency Correction Burst Transmissions in GSM Networks	9 Jul 2013	9 Jul 2013
RM135164	GB01	InDrafting	Detection of Frequency Correction Burst Transmissions in GSM Networks	9 Jul 2013	9 Jul 2013
RM135075	Family	InDrafting	Transmitter Intermodulation Cancellation for Carrier Aggregation/Multiband operation	4 Mar 2013	11 Jun 2012
RM135075	W/C01	InDrafting	Transmitter Intermodulation Cancellation for Carrier Aggregation/Multiband operation	4 Mar 2013	11 Jun 2012
RM135009	Family	InDrafting	Real-time recursive channel estimation for improved channel tracking capability with low-cost computational complexity	13 Jan 2013	
RM135009	US01	InDrafting	Real-time recursive channel estimation for improved channel tracking capability with low-cost computational complexity	13 Jan 2013	
RM126314	Family	InDrafting	Wake-up lead-time self-calibration technique for power saving	4 Oct 2012	2 Oct 2012
RM126314	W/C01	InDrafting	Wake-up lead-time self-calibration technique for power saving	4 Oct 2012	2 Oct 2012

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RM126193	Family	InDrafting	Transmitter Harmonic Cancellation for Carrier Aggregation/Multiband operation	13 Jun 2012	10 May 2012
RM126193	WO01	InDrafting	Transmitter Harmonic Cancellation for Carrier Aggregation/Multiband operation	13 Jun 2012	10 May 2012

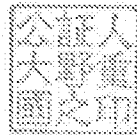


NOTARIAL CERTIFICATE

This is to certify that Yasuhiro Mishiro an agent of Hisao Sakuta, Chairman & CEO of RENESAS ELECTRONICS CORPORATION, has stated in my presence that said Hisao Sakuta has acknowledged to have signed the attached document.

This is to certify that Yasuhiro Mishiro an agent of Hideaki Chaki, President & CEO of RENESAS MOBILE CORPORATION, has stated in my presence that said Hideaki Chaki has acknowledged to have signed the attached document.

Dated this 30th day of September, 2013.



S. Ono

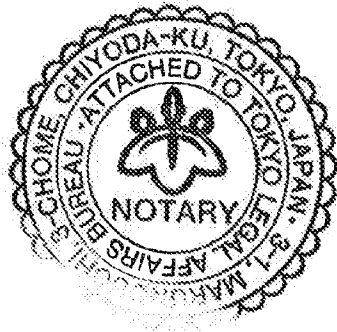
Shigekuni Ono

NOTARY

3-1, Marunouchi 3-chome,

Chiyoda-ku, Tokyo

Tokyo Legal Affairs Bureau



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平成 25 年登簿第 0184 号

添付書面における作成名義人ルネサスエレクトロニクス株式会社代表取締役作田久男及び同ルネサスマobil株式会社代表取締役茶木英明の代理人三代恭裕は、当職の面前で、各本人が作成名義人の署名を自認していると陳述した。

よって、これを認証する。

平成 25 年 9 月 30 日、本職役場において

東京都千代田区丸の内三丁目 3 番 1 号

東京法務局所属

公証人

大野重國

