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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	13590423
				Filing Date	2012-08-21
				First Named Inventor	ALEKSANDAR; M. Tasic
				Art Unit	2631
				Examiner Name	TRAN, KHANH C
Sheet	1	of	18	Attorney Docket No: 121973	

U.S.PATENTS						
Examiner Initial*	Cite No ¹	Patent Number	Kind Code ²	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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Sheet	2	of	18	Attorney Docket No: 121973	

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Sheet	3	of	18	Attorney Docket No: 121973	

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	054	20100034094		2010-02-11	TENNY; Nathan E.	
	055	20100040178		2010-02-18	SUTTON; Todd et al.	
	056	20100195754		2010-08-05	LI; Linbo et al.	
	057	20100197263		2010-08-05	DWYER; Johanna Lisa et al.	
	058	20100210272		2010-08-19	SUNDSTROM; Lars et al.	
	059	20100210299		2010-08-19	GORBACHOV; Oleksandr	
	060	20100214184		2010-08-26	TRAN; Allen M. et al.	
	061	20100225414		2010-09-09	GORBACHOV; Oleksandr	
	062	20100226327		2010-09-09	ZHANG; Jianzhong et al.	
	063	20100232493		2010-09-16	THIRUMOORTHY; Hari	

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				Application Number	13590423
				Filing Date	2012-08-21
				First Named Inventor	ALEKSANDAR; M. Tasic
				Art Unit	2631
				Examiner Name	TRAN, KHANH C
Sheet	8	of	18	Attorney Docket No: 121973	

U.S.PATENT APPLICATION PUBLICATIONS						
Examiner Initial*	Cite No ¹	Publication Number	Kind Code ²	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	064	20100265875		2010-10-21	ZHAO; Liang et al.	
	065	20100271986		2010-10-28	CHEN; Ga-Lane	
	066	20100272051		2010-10-28	FU; I-Kang et al.	
	067	20100311378		2010-12-09	TASIC; Aleksandar M. et al.	
	068	20100328155		2010-12-30	SIMIC; Emilija M. et al.	
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	070	20110044380		2011-02-24	MARRA; Thomas D. et al.	
	071	20110050319		2011-03-03	WONG; Alan Chi Wai	
	072	20110084791		2011-04-14	MUN; Hyun-Won et al.	
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	074	20110110463		2011-05-12	CHANG; Li-Chung et al.	
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	076	20110165848		2011-07-07	GORBACHOV; Oleksandr et al.	
	077	20110193625		2011-08-11	GATTA; Francesco et al.	
	078	20110211533		2011-09-01	CASACCIA; Lorenzo et al.	
	079	20110217945		2011-09-08	UEHARA; Gregory et al.	
	080	20110222443		2011-09-15	KHLAT; Nadim	
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	082	20110250926		2011-10-13	WIETFELDT; Richard Dominic et al.	
	083	20110268048		2011-11-03	TOSKALA; Antti A. et al.	
	084	20110268232		2011-11-03	PARK; Chester et al.	

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	085	20110300810		2011-12-08	MIKHEMAR; Mohyee et al.	
	086	20120009886		2012-01-12	POULIN; Grant Darcy	
	087	20120013387		2012-01-19	SANKARANARAYANAN; Janakiram G. et al.	
	088	20120026862		2012-02-02	SADRI; Ali S. et al.	
	089	20120044927		2012-02-23	PAN; Chengzhi et al.	
	090	20120057621		2012-03-08	HONG; Seung-Chul et al.	
	091	20120294299		2012-11-22	FERNANDO; Udara C.	
	092	20120327825		2012-12-27	GUDEM; Prasad Srinivasa Siva et al.	
	093	20120329395		2012-12-27	HUSTED; Paul et al.	
	094	20130003617		2013-01-03	GUDEM; Prasad Srinivasa Siva et al.	
	095	20130043946		2013-02-21	HADJICHRISTOS; Aristotele et al.	
	096	20130114769		2013-05-09	FERNANDO; Udara C.	
	097	20130230080		2013-09-05	GUDEM; Prasad Srinivasa Siva et al.	
	098	20130231064		2013-09-05	GUDEM; Prasad Srinivasa Siva et al.	

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	001	1523912	CN	A	2004-08-25	LG ELECTRONICS CHINA RES & DEV [CN]		<input checked="" type="checkbox"/>
	002	1164719	EP	A1	2001-12-19	MITSUBISHI ELECTRIC CORP [JP]		<input type="checkbox"/>
	003	1370012	EP		2003-12-10	MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.		<input type="checkbox"/>
	004	1398887	EP	A1	2004-03-17	SIEMENS AG [DE]		<input type="checkbox"/>
	005	1708372	EP	A2	2006-10-04	BROADCOM CORP [US]		<input type="checkbox"/>
	006	1916767	EP	B1	2010-12-29	ISTITUTO SUPERIORE MARIO BOELL [IT]		<input type="checkbox"/>
	007	2068583	EP	A1	2009-06-10	KYOCERA CORP [JP]		<input type="checkbox"/>
	008	2472978	GB	A	2011-03-02	VODAFONE PLC [GB]		<input type="checkbox"/>
	009	05227234	JP		1993-09-03	SONY CORP.		<input checked="" type="checkbox"/>
	010	07221684	JP		1995-08-18	FUJIFILM CORP.		<input checked="" type="checkbox"/>
	011	09116458	JP		1997-05-02	N T T IDO TSUSHINMO KK MURATA MFG CO LTD.		<input checked="" type="checkbox"/>
	012	2000013278	JP	A	2000-01-14	MATSUSHITA ELECTRIC IND CO LTD.		<input checked="" type="checkbox"/>

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	013	2001285114	JP	A	2001-10-12	SHARP KK.		<input checked="" type="checkbox"/>
	014	2004015162	JP	A	2004-01-15	HITACHI METALS LTD .		<input checked="" type="checkbox"/>
	015	2007324711	JP	A	2007-12-13	KYOCERA CORP.		<input checked="" type="checkbox"/>
	016	9027778	JP	A	1997-01-28	FUJITSU TEN LTD .		<input checked="" type="checkbox"/>
	017	01050636	WO		2001-07-12	mitsubishi electric corp [JP]		<input checked="" type="checkbox"/>
	018	05039060	WO		2005-04-28	NOKIA CORPORATION,FI .		<input type="checkbox"/>
	019	2006118538	WO	A2	2006-11-09	ERICSSON TELEFON AB L M [SE]		<input type="checkbox"/>
	020	2008092745	WO	A1	2008-08-07	NOKIA SIEMENS NETWORKS GMBH [DE], et al.		<input type="checkbox"/>
	021	2008145604	WO	A1	2008-12-04	ERICSSON TELEFON AB L M [SE], et al.		<input type="checkbox"/>
	022	2010059257	WO	A1	2010-05-27	CISCO TECH INC [US], et al.		<input type="checkbox"/>
	023	2011050729	WO	A1	2011-05-05	SONY CORP [JP], et al.		<input type="checkbox"/>
	024	2011092005	WO	A1	2011-08-04	ST ERICSSON SA [CH], et al.		<input type="checkbox"/>

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	025	2011138697	WO	A1	2011-11-10	ERICSSON TELEFON AB L M [SE], et al.		<input type="checkbox"/>
	026	2012008705	WO	A2	2012-01-19	LG ELECTRONICS INC [KR], et al.		<input type="checkbox"/>
	027	2013036794	WO	A1	2013-03-14	UNIV DREXEL [US], et al.		<input type="checkbox"/>

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	001	3GPP TS 36.101 V11.0.0, 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) radio transmission and reception (Release 11), March 2012.	<input type="checkbox"/>
	002	APARIN et al., "A Highly-integrated tri-band/quad-mode SiGe BiCMOS RF-to-baseband and receiver for wireless CDMA/WCDMA/AMPS applications with GPS capability", SOLID-STATE CIRCUITS CONFERENCE, 2002. DIGEST OF TECHNICAL PAPERS. 2002 IEEE INTERNATIONAL FEB 3-7, 2002, PISCATAWAY, NJ, USA, IEEE, vol. 1, 2002, pgs. 234-235, XP010585547, ISBN: 0-7803-7335-9.	<input type="checkbox"/>
	003	BROYDE F., et al., "The Noise Performance of a Multiple-Input-Port and Multiple-Output-Port Low-Noise Amplifier Connected to an Array of Coupled Antennas," International Journal of Antennas and Propagation, Volume 2011, Article ID 438478, 18 July 2011, 12 pages.	<input type="checkbox"/>

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	004	CHEN, et al, "A 5-6 GHz 1-V CMOS Direct-Conversion Receiver With an Integrated Quadrature Coupler," IEEE Journal of Solid-State Circuits, vol.42, no.9, 2007, pp.1963-1975.		<input type="checkbox"/>
	005	CHEN, et al., "A monolithic 5.9-GHz CMOS I/Q direct-down converter utilizing a quadrature coupler and transformer-coupled subharmonic mixers," Microwave and Wireless Components Letters, IEEE , vol.16, no.4, 2006, pp. 197- 199.		<input type="checkbox"/>
	006	GARUDA, et al., "A Multi-band CMOS RF Front-end for 4G WiMAX and WLAN Applications," 2006 IEEE International Symposium on Circuits and Systes, 2006. ISCAS 2006. May 2006, 4 pages.		<input type="checkbox"/>
	007	HASHEMI, et al., "Concurrent Multiband Low-Noise Amplifiers—Theory, Design, and Applications," IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, VOL. 50, NO. 1, JANUARY 2002.		<input type="checkbox"/>
	008	HENRIK M et al., "A Full Duplex Front End Module for WiFi 802.11.n Applications", European Microwave Association, vol.12, no. 4, Oct. 2008, pp.162-165.		<input type="checkbox"/>
	009	HWANG, et al., "A High IIP2 Direct-Conversion Receiver using Even-Harmonic Reduction Technique for Cellular CDMA/PCS/GPS applications," IEEE Transaction on Circuits and Systems.		<input type="checkbox"/>
	010	JONES W. W., et al., "Narrowband interference suppression using filter-bank analysis/synthesis techniques", MILITARY COMMUNICATIONS CONFERENCE, 1992. MILCOM '92, CONFERENCE RECORD. COMMUNICATIONS - FUSING COMMAND, CONTROL AND INTELLIGENCE., IEEE SAN DIEGO, CA, USA, 11 14 OCT. 1992, NEW YORK, NY, USA, IEEE, US, 11 October 1992 (1992-10-11), pages 898-902, XP010060840, DOI: 10.1109/MILCOM.1992.243977, ISBN: 978-0-7803-0585-4.		<input type="checkbox"/>

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	13590423
				Filing Date	2012-08-21
				First Named Inventor	ALEKSANDAR; M. Tasic
				Art Unit	2631
				Examiner Name	TRAN, KHANH C
Sheet	14	of	18	Attorney Docket No: 121973	

NON-PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ⁶
	011	JUSSI R et al., "A DUAL-BAND RF FRONT-END FOR WCDMA AND GSM APPLICATIONS", IEEE, Journal Solid-State Circuits, 2001, Vol. 36, No.8, pp. 1198-1204.		<input type="checkbox"/>
	012	KEVIN W et al., "3G/4G Multimode Cellular Front End Challenges", Part 2: Architecture Discussion, RFMD® WHITE PAPER, 9 pages.		<input type="checkbox"/>
	013	KIM, T.W., et al., "Highly Linear Receiver Front-End Adopting MOSFET Transconductance Linearization by Multiple Gated Transistors, IEEE JOURNAL OF SOLID-STATE CIRCUITS, United States, IEEE, January 1, 2004, VOL. 39, NO. 1, pp. 223-229.		<input type="checkbox"/>
	014	LAI, C.M.,et al., "Compact router transceiver architecture for carrier aggregation systems", MICROWAVE CONFERENCE (EUMC), 2011 41ST EUROPEAN, IEEE, 10 October 2011 (2011-10-10), pages 693-696, XP032072825, ISBN: 978-1-61284-235-6 the whole document.		<input type="checkbox"/>
	015	LEE et al., "Development of Miniature Quad SAW filter bank based on PCB substrate", IEEE Intl Frequency Control Symp, pp. 146-149, 2007.		<input type="checkbox"/>
	016	MSM6000 Chipset Solution, Qualcomm Incorporated.		<input type="checkbox"/>
	017	MSM6500 Chipset Solution, Qualcomm Incorporated.		<input type="checkbox"/>
	018	PITSCHI M. et al., "High Performance Microwave Acoustic Components for Mobile Radios", Ultrasonics Symposium (IUS), 2009 IEEE International, EPCOS AG, Munich, Germany, Vol 1, 20-23 Sept. 2009.		<input type="checkbox"/>

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	019	QUALCOMM EUROPE: "UE Implementation Impact due to 4C-HSDPA Operation", 3GPP DRAFT; R1-094067_UE_IMPL_IMPACT_4C_HSDPA, 3RD GENERATION PARTNERSHIP PROJECT (3GPP), MOBILE COMPETENCE CENTRE ; 650, ROUTE DES LUCIOLES ; F-06921 SOPHIA-ANTIPOLIS CEDEX ; FRANCE, no. Miyazaki; 20091012, 12 October 2009 (2009-10-12), XP050388547, [retrieved on 2009-10-06].		<input type="checkbox"/>
	020	RAHN D.G., et al., "A fully integrated multiband MIMO WLAN transceiver RFIC," IEEE J. Solid-State Circuits, 2005, Vol. 40 (8), 1629-1641.		<input type="checkbox"/>
	021	SEVER et al. "A Dual-Antenna Phase-Array Ultra-Wideband CMOS Transceiver". IEEE Communications Magazine [Online] 2006, Vol. 44, Issue 8, pp. 102-110. See Pages 104-107.		<input type="checkbox"/>
	022	TASIC A. et al., "Design of Adaptive Multimode RF Front-End Circuits", IEEE Journal of Solid-State Circuits, Vol 42, Issue 2, Feb. 2007 Page(s):313 - 322.		<input type="checkbox"/>
	023	"UMTS Picocell Front End Module", CTS Corp. 8 pages.		<input type="checkbox"/>
	024	WINTERNITZ, et al., "A GPS Receiver for High-Altitude Satellite Navigation," IEEE Journal of Selected Topics in Signal Processing, Vol. 3, No.4, pp. 541-556, August 2009.		<input type="checkbox"/>

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				Examiner Name	TRAN, KHANH C
Sheet	16	of	18	Attorney Docket No: 121973	

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

- ☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

- ☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

- ☐ See attached certification statement.

- ☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

- ☒ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Ramin Mobarhan, Reg# 50,182/	Date (YYYY-MM-DD)	Oct 4, 2013
Name/Print	Ramin Mobarhan	Registration Number	50182

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Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 220(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
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