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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		12099320
	Filing Date		2008-04-08
	First Named Inventor	Montgomery	
	Art Unit		
	Examiner Name	Tho Phan	
	Attorney Docket Number		SCS-003CIP

U.S.PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	6141539		2000-10-31	Marino	
	2	6930642	B2	2005-08-16	Kossiavas	
	3	6897808	B1	2005-05-24	Murch	
	4	2947987		1960-08-02	Dodington	
	5	5047787		1991-09-10	Hogberg	
	6	5463406		1995-10-31	Vannatta	
	7	6069590		2000-05-30	Thompson	
	8	6509883		2003-01-21	Foti	

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9	6876337		2005-04-05	Larry	
10	3646559		1972-02-29	Wiley	
11	5189434		1993-02-23	Bell	
12	6573869		2008-09-11	Moore	
13	5617102		1997-04-01	Prater	
14	7340277	B2	2008-03-04	Nakamura	
15	7187945		2007-03-06	Ranta	
16	7251499		2007-07-31	Ella	

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U.S.PATENT APPLICATION PUBLICATIONS

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20060050009	A1	2006-03-09	Ho	

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2	20050200535	A1	2005-09-15	Elkobi	
3	20070060089	A1	2007-03-15	Owen	

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FOREIGN PATENT DOCUMENTS

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	1							<input type="checkbox"/>

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	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, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	A. DIALLO, C. LUXEY, P. LE THUC, R. STARAJ AND G. KOSSIAVAS, Efficient Two-Port Antenna System For GSM=DCS=UMTS Multimode Mobile Phones, ELECTRONICS LETTERS, March 29, 2007 Vol. 43 No.	<input type="checkbox"/>
	2	ALIOU DIALLO, CYRIL LUXEY, PHILIPPE LE THUC, ROBERT STARAJ, AND GEORGES KOSSIAVAS, Study and Reduction of the Mutual Coupling Between Two Mobile Phone PIFAs Operating in the DCS1800 and UMTS Bands, IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, VOL. 54, NO. 11, NOVEMBER 2006	<input type="checkbox"/>
	3	A. DIALLO, C. LUXEY, P. LE THUC, R. STARAJ, G. KOSSIAVAS, M. FRANZEN, P.S. KILDAL, MIMO Performance Of Enhanced UMTS Four-Antenna Structures For Mobile Phones In The Presence Of The User's Head undated	<input type="checkbox"/>
	4	A. DIALLO and C. LUXEY, Estimation Of The Diversity Performance Of Several Two-Antenna Systems In Different Propagation Environments undated	<input type="checkbox"/>

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Examiner Name	
Attorney Docket Number	SCS-003CIP

5	A. DIALLO, C. LUXEY, P. LE THUC, R. STARAJ, G. KOSSIAVAS, Enhanced Diversity Antennas For Umts Handsets undated	<input type="checkbox"/>
6	A. DIALLO, C. LUXEY, P. LE THUC, R. STARAJ, G. KOSSIAVAS, M. FRANZÉN, P.-S. KILDAL, Reverberation Chamber Evaluation Of Multi-Antenna Handsets Having Low Mutual Coupling And High Efficiencies undated	<input type="checkbox"/>
7	A. DIALLO, C. LUXEY, P. LE THUC, R. STARAJ, G. KOSSIAVAS, M. FRANZEN, P.-S. KILDAL, Evaluation Of The Performances Of Several Four-Antenna Systems In A Reverberation Chamber undated	<input type="checkbox"/>
8	S.RANVIER, C. LUXEY, R. STARAJ, P. VAINIKAINEN, C. ICHELN, Mutual Coupling Reduction For Patch Antenna Array undated	<input type="checkbox"/>
9	S.RANVIER, C. LUXEY, P. SUVIKUNNAS, R. STARAJ, P. VAINIKAINEN, Capacity Enhancement by Increasing Both Mutual Coupling and Efficiency: a Novel Approach undated	<input type="checkbox"/>
10	J. BACH ANDERSEN, AND HENRIK HASS RASMUSSEN, Decoupling and Descattering Networks for Antennas, IEEE Transactions On Antennas And Propagation, November 1976	<input type="checkbox"/>
11	JON W. WALLACE AND MICHAEL A. JENSEN, Termination-Dependent Diversity Performance of Coupled Antennas: Network Theory Analysis, IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, VOL. 52, NO. 1, JANUARY 2004	<input type="checkbox"/>
12	S. DOSSCHE, S. BLANCH AND J. ROMEU, Three Different Ways To Decorrelate Two Closely Spaced Monopoles For MIMO Applications, IEEE 2005	<input type="checkbox"/>
13	BUON KIONG LAU, JØRGEN BACH ANDERSEN, GERHARD KRISTENSSON, AND ANDREAS F. MOLISCH, Impact of Matching Network on Bandwidth of Compact Antenna Arrays, IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, VOL. 54, NO. 11, NOVEMBER 2006	<input type="checkbox"/>
14	JON W. WALLACE AND MICHAEL A. JENSEN, Mutual Coupling in MIMO Wireless Systems: A Rigorous Network Theory Analysis undated	<input type="checkbox"/>
15	JON W. WALLACE AND MICHAEL A. JENSEN, The Capacity of MIMO Wireless Systems with Mutual Coupling undated	<input type="checkbox"/>

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16	SAMUEL C. K. KO AND ROSS D. MURCH, Compact Integrated Diversity Antenna for Wireless Communications, IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, VOL. 49, NO. 6, JUNE 2001	<input type="checkbox"/>
17	STJERNMAN, A., Antenna Mutual Coupling Effects on Correlation, Efficiency and Shannon Capacity in MIMO Wireless Systems EuCAP 2006 - European Conference on Antennas & Propagation, November 06, 2006	<input type="checkbox"/>
18	PCT International Search Report and Written Opinion for International Application No. PCT/US08/60723, Date of Mailing: August 6, 2008	<input type="checkbox"/>
19	PCT International Search Report and Written Opinion for International Application No. PCT/US07/76667, Date of Mailing: August 20, 2008	<input type="checkbox"/>
20	U.S.P.T.O. Office Action for U.S. Patent Application No. 11/769,565, Mail Date: August 6, 2008	<input type="checkbox"/>

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Examiner Signature	/Tho Phan/ (03/28/2009)	Date Considered	03/28/2009
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