

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		
	Filing Date		
	First Named Inventor	Mark T. Montgomery	
	Art Unit	2821	
	Examiner Name	T. G. Phan	
	Attorney Docket Number	SCJ-00203	

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	2	3646559		1972-02-29	Wiley	
	3	5047787		1991-09-10	Hogberg	
	4	5079562		1992-01-07	Yarsunas et al.	
	5	5189434		1993-02-23	Bell	
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	7	5617102		1997-04-01	Prater	
	8	6069590		2000-05-30	Thompson, Jr. et al.	

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	9	6483463		2002-11-19	Kadambi et al.	
	10	6501427		2002-12-31	Lilly et al.	
	11	6509883		2003-01-21	Foti et al.	
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	13	6876337		2005-04-05	Larry	
	14	6897808		2005-05-24	Murch et al.	
	15	6930642		2005-08-16	Kossiavas et al.	
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	2	20050200535		2005-09-15	Elkobi et al.	
	3	20060050009		2006-03-09	Ho et al.	
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	5	20070060089		2007-03-15	Owen et al.	
	6	20080258991		2008-10-23	Montgomery et al.	
	7	20080278405		2008-11-13	Montgomery et al.	
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	1	0847101	EP	A2	1998-06-10	Raytheon E Systems Inc		<input type="checkbox"/>
	2	2616015	FR	A1	1988-12-02	TRT Elecom Radio Electr		<input type="checkbox"/>
	3	2005-020206	JP	A	2005-01-20	Kyocera Corp		<input checked="" type="checkbox"/>
	4	251957	TW	B	2006-03-21	Hon Hai Prec Ind Co Ltd		<input checked="" type="checkbox"/>
	5	553507	TW	Y	2003-09-11	Tsai, Chung-jou		<input type="checkbox"/>
	6	1255588	TW	B	2006-05-21	Yageo Corp et al.		<input type="checkbox"/>
	7	01-31735	WO	A1	2001-05-03	Qualcomm Inc		<input type="checkbox"/>
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1	BACH ANDERSEN, J. and HENRIK HASS RASMUSSEN, "Decoupling and Descattering Networks for Antennas," IEEE Transactions On Antennas And Propagation, November 1976.	<input type="checkbox"/>
2	DIALLO, A., 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. 7.	<input type="checkbox"/>
3	DIALLO, A., C. LUXEY, P. LE THUC, R. STARAJ, and G. KOSSIAVAS, "Enhanced Diversity Antennas for UMTS Handsets," Proc. 'EuCAP 2006' Nice, France, 6-10 November 2006 (ESa SP-626, October 2006), pgs. 1-5, GloMo 1998.	<input type="checkbox"/>
4	DIALLO, A. and C. LUXEY, "Estimation Of The Diversity Performance Of Several Two-Antenna Systems In Different Propagation Environments."	<input type="checkbox"/>
5	DIALLO, A., 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."	<input type="checkbox"/>
6	DIALLO, A., 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 ."	<input type="checkbox"/>
7	DIALLO, A., 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."	<input type="checkbox"/>
8	DIALLO, ALIOU, 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"/>
9	DOSSCHE, S., S. BLANCH and J. ROMEU, "Three Different Ways To Decorrelate Two Closely Spaced Monopoles For MIMO Applications," IEEE 2005.	<input type="checkbox"/>
10	FOLTZ, H.D. J.S. McLEAN, E. GUZMZN, and G.E. CROOK, "Multielement Top-loaded Vertical Antennas with Mutually Isolated Input Ports," University of Texas, Pan American, Electrical Engineering, pgs. 1-24, GloMo 1998.	<input type="checkbox"/>
11	KO, SAMUEL C. K. 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"/>

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12	LAU, BUON KIONG, 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"/>
13	RANVIER, S., C. LUXEY, P. SUVIKUNNAS, R. STARAJ, and P. VAINIKAINEN, "Capacity Enhancement by Increasing Both Mutual Coupling and Efficiency: a Novel Approach."	<input type="checkbox"/>
14	RANVIER, S., C. LUXEY, R. STARAJ, P. VAINIKAINEN, and C. ICHELN, "Mutual Coupling Reduction For Patch Antenna Array."	<input type="checkbox"/>
15	Sakuda et al. "A Method of Decoupling in Two folded Antennas," Transactions of the Institute of Electronics and Communication Engineers of Japan, Section E (English) Japan, vol. E60, no. 8, August 1977 (1977-08), pages 422-423.	<input type="checkbox"/>
16	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"/>
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18	WALLACE, JON W. and MICHAEL A. JENSEN, "Mutual Coupling in MIMO Wireless Systems: A Rigorous Network Theory Analysis."	<input type="checkbox"/>
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21	PCT International Search Report and Written Opinion for International Application No. PCT/US07/76667, Date of Mailing: August 20, 2008	<input type="checkbox"/>
22	European Search Report for EP08746192, dated 4 November 2011.	<input type="checkbox"/>

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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).

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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.
- The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- A certification statement is not submitted herewith.

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	/RAJESH VALLABH/	Date (YYYY-MM-DD)	2012-04-24
Name/Print	Rajesh Vallabh	Registration Number	35761

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