

Doc code: IDS

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Doc description: Information Disclosure Statement (IDS) Field

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		Not Yet Assigned
	Filing Date		Even Date Herewith
	First Named Inventor	Li Chen	
	Art Unit		
	Examiner Name		
	Attorney Docket Number		5000-0011

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
/B.J./		2947987		1960-08-02	Dodington	
/B.J./		3646559		1972-02-29	Wiley	
/B.J./		5047787		1991-09-10	Hogberg	
/B.J./		5189434		1993-02-23	Bell	
/B.J./		5463406		1995-10-31	Vannatta	
/B.J./		5617102		1997-04-01	Prater	
/B.J./		6069590		2000- 05-30	Thompson	
/B.J./		6141539	A	2000-10-31	Marino, Ronald A.	
/B.J./		6509883		2003-01-21	Foti	
/B.J./		6573869		2003-06-03	Moore	
/B.J./		6876337		2005-04-05	Larry	

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	Attorney Docket Number		5000-0011

/B.J./		6897808		2005- 05-24	Murch	
/B.J./		6930642		2005-08-16	Kossiavas	
/B.J./		7187945		2007-03-06	Ranta	
/B.J./		7251499		2007-07-31	Ella	
/B.J./		7340277		2008-03-04	Nakamura	

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
/B.J./		2005/0200535		2005-09-15	Elkobi	
/B.J./		2006/0050009		2006-03-09	Ho	
/B.J./		2007/0060089		2007-03-15	Owen	

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵

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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, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
/B.J./		PCT International Search Report and Written Opinion for International Application No. PCT/US08/60723, 08/06/2008	
/B.J./		PCT International Search Report and Written Opinion for International Application No. PCT/US07/76667, 08/20/2008	
/B.J./		ANDERSEN, J. B. , "Decoupling and Descattering Networks for Antennas", IEEE Transactions On Antennas And Propagation,, Nov. 1976	
/B.J./		DIALLO, "Enhanced Diversity Antennas for UMTS Handsets", Proc. 'EuCAP 2006' Nice, France, 6-10 November 2006 (ESa SP-626, October 2006), pgs. 1-5, GloMo D 1998	
/B.J./		DIALLO, "Estimation Of The Diversity Performance Of Several Two-Antenna Systems In Different Propagation Environments", Antennas and Propagation Society International Symposium, 2007 IEEE, pgs. 2642-2645, 9-15 June 2007.	
/B.J./		DIALLO, "Evaluation OfThe Performances Of Several Four-Antenna Systems In A Reverberation Chamber", Antenna Technology: Small and Smart Antennas Metamaterials and Applications, 2007, IWAT '07, International Workshop, pgs. 166-169, 21-23 March 2007	

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	First Named Inventor	Li Chen	
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	Examiner Name		
	Attorney Docket Number		5000-0011

/B.J./		DIALLO, "MIMO Performance Of Enhanced UMTS Four-Antenna Structures For Mobile Phones In The Presence Of The User's Head", Antennas and Propagation Society International Symposium, 2007 IEEE, pgs. 2853-2856, 9-15 June 2007	
/B.J./		DIALLO, "Reverberation Chamber Evaluation Of Multi-Antenna Handsets Having Low Mutual Coupling And High Efficiencies", Proceedings of The European Conference on Antennas and Propagation: EuCAP 2006 (ESA SP-626), Nice, France, 6-10 November 2006	
/B.J./		DIALLO, "Study and 8 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	
/B.J./		DIALLO, A.C. L. , "Efficient Two-Port Antenna System For GSM=DCS=UMTS Multimode Mobile Phones", ELECTRONICS LETTERS, Vol. 43 No. 7, 03/29/2007	
/B.J./		DOSSCHE, "Three Different Ways To Decorrelate Two Closely Spaced Monopoles For MIMO Applications", IEEE 2005	
/B.J./		FOLTZ, "Multielement Top-loaded Vertical Antennas with Mutually Isolated Input Ports", University of Texas, Pan American, Electrical Engineering, pgs. 1-24, GloMo 1998	
/B.J./		KO, "Compact Integrated Diversity Antenna for Wireless Communications", IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, VOL. 49, NO.6, JUNE 2001	
/B.J./		LAU, "Impact of Matching Network on Bandwidth of Compact Antenna Arrays", IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, VOL. 54, NO. 11, NOVEMBER 2006	

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	Examiner Name		
	Attorney Docket Number		5000-0011

/B.J./		RANVIER, "Capacity Enhancement by Increasing Both Mutual Coupling and Efficiency: a Novel Approach", Antennas and Propagation Society International Symposium, 2007 IEEE, pgs. 3632-3635, June 9-15, 2007	
/B.J./		RANVIER, "Mutual Coupling Reduction For Patch Antenna Array", Proceedings of The European Conference on Antennas and Propagation: EuCAP 2006 (ESA SP-626), Nice, France, 6-10 November 2006	
/B.J./		STJERNMAN, "Antenna Mutual Coupling Effects on Correlation, Efficiency and Shannon Capacity in MIMO Wireless Systems", EuCAP 2006 - European Conference on Antennas & Propagation, November 06, 2006	
/B.J./		WALLACE, "Mutual Coupling in MIMO Wireless Systems: A Rigorous Network Theory Analysis", Wireless Communications, IEEE Transactions, pgs. 1317-1325, Vol. 3, No. 4, July 2004	
/B.J./		WALLACE, "Termination-Dependent Diversity Performance of Coupled Antennas: 19 Network Theory Analysis", IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION, VOL. 52, NO. 1, JANUARY 2004	
/B.J./		WALLACE, "The Capacity of MIMO Wireless Systems with Mutual Coupling", Vehicular Technology Conference, 2002. Proceedings. VTC 2002-Fall, IEEE 56th, pgs. 696-700, Vol. 2	

EXAMINER SIGNATURE			
Examiner Signature	/Bamidele Jegede/ (05/14/2015)	Date Considered	05/14/2015