

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Not for submission under 37 CFR 1.99)	<b>Application Number</b>		
	<b>Filing Date</b>		
	<b>First Named Inventor</b>	Li Chen	
	<b>Art Unit</b>		
	<b>Examiner Name</b>		
	<b>Attorney Docket Number</b>		5000-0012-01

<b>U.S.PATENTS</b>						
Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		610435 6	A	2000-08-15	Hikuma, Hideo et al.	
		675381 5	B2	2004-06-22	Okubora, Akihiko et al.	
		712989 4	B1	2006-10-31	Winter, James B.	
		753216 8	B2	2009- 05-12	Nakanishi, Seiichi et al.	
		780844 5	B2	2010-10-05	von Arbin, Axel	
		790709 4		2011-03-15	Kakitsu et al.	
		830527 5	B2	2012-11-06	Man, Ying T., et al.	
		833065 8	B2	2012-12-11	Ishii, Junichi	
<b>U.S.PATENT APPLICATION PUBLICATIONS</b>						
Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
<b>FOREIGN PATENT DOCUMENTS</b>						

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Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup>	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
<b>NON-PATENT LITERATURE DOCUMENTS</b>								
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 <sup>5</sup>
		BEST, S.R. , "A Discussion of the Quality Factor of Electrically Matched Small Wire Antennas," IEEE Trans. Antennas and Propagation, Vol. 53, No. 1, pp 502 - 508, Jan. 2005.,						
		CAIMI, F.M. , "Antenna Solutions for MIMO in LTE Handsets (with other applications)" IWPC MIMO Summit conference proceedings, San Diego, California November 11-12, 2008.,						
		CAIMI, F.M. , "Dual Feed, Single Element Antenna for WiMAX/MIMO Application, International Journal of Antennas and Propagation, v. 2008, Article ID 219838, 2008.,						
		CHIU, C.W. , "A Meandered Loop Antenna for LTE/WWAN Operations in a Smartphone," Progress In Electromagnetics Research C, Vol. 16, 147{160, 2010.,						
		CHU, L.J. , "Physical limitations of omni-directional antennas," Journal Applied Physics 19, pp. 1163-1175, Dec. 1948.,						

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		FAMDIE, CELESTIN , "Numerical analysis of characteristic modes on the chassis of mobile phones," in EuCAP 2006 1st European Conf. Antennas Propag., Nice, France, Nov. 6-10, 2006, pp. 358-361.,	
		HARRINGTON, R.F. , "Effects of Antenna Size on Gain, Bandwidth, and Efficiency," J. Nat. Bur. Stand., v 64-D, pp. 1-12, 1960.,	
		MCLEAN, J.S. , "A Re-examination of the Fundamental Limits on the Radiation Q of Electrically Small Antennas," IEEE Antennas and Propagation, Vol. 44, pp. 672-675, May 1996.,	
		PARSON, S.D. , "The Mobile Radio Propagation Channel," 2nd edition, Wiley, 2000.,	
		VAINIKAINEN, P. , "Resonator-based analysis of the combination of mobile handset antenna and chassis", IEEE Trans.AP, vol.50, no.10, Oct.2002, 1433 - 1444.,	
		VAUGHAN, R.G. , "Antenna diversity in mobile communications," IEEE Trans. on Vehicular Technology, Vol. 36, No. 4, 149-172, Nov. 1987,	
		WHEELER, H. , "Small Antennas," IEEE Antennas and Propagation, Vol. AP-23, 4, pp. 462 - 469, 1975.,	
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