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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: **Frank M. Caimi, et al**

Art Unit: **2821**

Serial No.: **11/252,248**

Examiner: **Unassigned**

Filed: **10/17/2005**

Confirmation No.: **6602**

Atty. Docket No.: **D053/069987-061**

For: **Method and Apparatus for Adaptively Controlling Antenna Parameters to Enhance Efficiency and Maintain Antenna Size Compactness**

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

- 1. Pursuant to 37 CFR 1.97(b)
- 2. Pursuant to 37 CFR 1.97(c)
- 3. Pursuant to 37 CFR 1.97(d)

October 7, 2006

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The following are submitted in the above identified application in compliance with 37 CFR 1.97 and 1.98:

- 5. A list of documents on form PTO-1449 together with copies of each identified document and a translation or a concise explanation of each non-English language document is enclosed herewith.

This paper is submitted in accordance with:

- 6. 37 CFR 1.97(b): [within 3 months of filing or prior to 1<sup>st</sup> Office Action];
- 7. 37 CFR 1.97(c): [before Final Office Action or Allowance, whichever is earlier]; and
  - a) The required statement made in item 9 below; or
  - b) The \$180.00 fee specified in 37 CFR §1.17(p) for submission of this Information Disclosure Statement is enclosed via check payable to Director of USPTO.

8. 37 CFR § 1.95(d): [after the period specified in 37 C.F.R. 1.97(c) but on or before issue fee payment]; and

a) The required statement made in item 9 below; or

b) The \$180.00 fee specified in 37 CFR §1.17(p) for submission of this Information Disclosure Statement is enclosed via check payable to Director of USPTO.

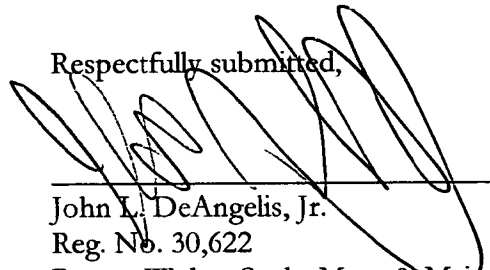
9. Statement

a) Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement; or

b) No item of information contained in this 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 this document after making reasonable inquiry, was known to any individual designated in 37 CFR 1.56(c) more than three (3) months prior to the filing of this Statement.

10. Please charge all applicable fees associated with the submittal of this Information Disclosure Statement to Deposit Account No. \_\_\_\_\_.

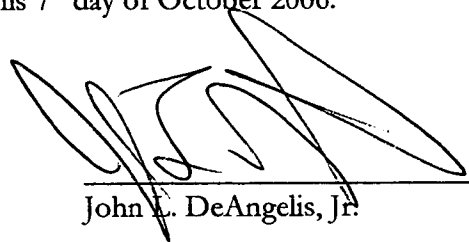
Respectfully submitted,



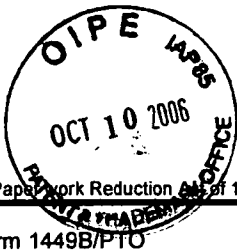
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CERTIFICATE OF MAILING

I HEREBY CERTIFY that this Information Disclosure Statement is being deposited with the U.S. Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 7<sup>th</sup> day of October 2006.



\_\_\_\_\_  
John L. DeAngelis, Jr.



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Substitute for form 1449B/PTO		<b>Complete if Known</b>	
		<b>Application Number</b>	11/252,248
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		<b>Filing Date</b>	10/17/2005
		<b>First Named Inventor</b>	Frank M. Caimi
		<b>Group Art Unit</b>	2821
		<b>Examiner Name</b>	Not Yet Assigned
		<b>Attorney Docket Number</b>	D053/069987-061
Sheet	1	of	2

U.S. PATENT DOCUMENTS					
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	01	US-5,361,403	11-01-1994	Dent	
	02	US-5,423,074	06-06-1995	Dent	
	03	US-5,771,444	06-23-1998	Dent et al.	
	04	US-5,778,308	07-07-1998	Sroka et al.	
	05	US-5,832,374	11-03-1998	Birth et al.	
	06	US-5,842,140	11-24-1998	Dent et al.	
	07	US-5,926,147	07-20-1999	Sehm et al.	
	08	US-5,991,608	11-23-1999	Leyten	
	09	US-6,178,313 B1	01-23-2001	Mages et al.	
	10	US-6,693,594 B2	02-17-2004	Pankinaho et al.	
	11	US-6,759,988 B2	07-06-2004	Purr et al.	
	12	US-6,784,844 B1	08-31-2004	Boakes et al.	
	13	US-6,845,126 B2	01-18-2005	Dent et al.	
	14	US-6,889,034 B1	05-03-2005	Dent	
	15	US-6,895,225 B1	05-17-2005	Talvitie et al.	
	16	US-6,904,296 B2	06-07-2005	Geeraert et al.	
	17	US-6,961,368 B2	11-01-2005	Dent et al.	
	18	US-7,002,519 B2	02-21-2006	Wang et al.	
	19	US-2004/0145523 A1	07-29-2004	Shamblin et al.	
	20	US-2005/0186931 A1	08-25-2005	Laiho et al.	
	21	US 2005/0237251 A1	10-27-2005	Boyle et al.	
	22	US-2005/0264455 A1	12-01-2005	Talvitie et al.	
	23	US 2005/0270105 A1	12-08-2005	Van Bezooijen et al.	
	24	US-2006/0017635 A1	01-26-2006	Zheng	
	25	US-2006/0066490 A1	03-30-2006	Ku et al.	
	26	US-2006/0099921 A1	05-11-2006	Hong et al.	

Examiner Signature		Date Considered	
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<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>2</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English Language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				Application Number	11/252,248
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				Examiner Name	Not Yet Assigned
Sheet	2	of	2	Attorney Docket Number	D053/069987-061

<b>FOREIGN PATENT DOCUMENTS</b>							
Examiner Initials <sup>*</sup>	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)					
	01	EP1271691A2		01-02-2003	Kivekas et al.		
<b>OTHER PRIOR ART – NONPATENT LITERATURE DOCUMENTS</b>							
Examiner Initials <sup>*</sup>	Cite No. <sup>1</sup>	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>2</sup>
	01	Pan, Helen K. et al., RF MEMS INTEGRATION IN RECONFIGURABLE BENT MONOPOLE ANTENNA DESIGN, 2006 National Radio Science Meeting, Abstract, 1 pg.					
	02	Han, Yongping et al., TOWARDS MULTI-SERVICE WIRELESS UNIVERSAL RECEIVER, 2006 National Radio Science Meeting, Abstract, 1 pg.					
	03	Zhang, Chunna et al., COMPACT NOVEL RECONFIGURABLE ANTENNAS FOR MULTI-BAND OPERATION, 2006 National Radio Science Meeting, Abstract, 1 pg.					
	04	Vainikainen, Pertti, et al., RESONATOR-BASED ANALYSIS OF THE COMBINATION OF MOBILE HANDSET ANTENNA AND CHASSIS, IEEE Transactions on Antennas and Propagation Vol. 50, No. 10, Pages 1433-1444, October 2002.					
	05	Raisanen, Antti V. et al., HUT RADIO LABORATORY RESEARCH AND EDUCATION 2002, Abstract, 1 pg.					
	06	Vendelin, George D. et al., MICROWAVE CIRCUIT DESIGN USING LINEAR AND NONLINEAR TECHNIQUES, S Parameter, Use of S Parameters with Amplifiers.					
Examiner Signature				Date Considered			

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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