

## REMARKS

The Applicant appreciates the thoroughness with which the subject application has been examined and the allowance of claims 17-24. The Applicant further appreciates the indication of allowable subject matter in claims 3-9, 11, 12 and 14. By this Amendment claims 1 and 15 have been amended to overcome the Examiner's rejections and objections and more concisely claim and describe the present invention. New claims 25 and 26 has been added. Claims 1-26 remain in the application for reconsideration by the Examiner. The Examiner's allowance of all pending claims is earnestly solicited.

### MATTERS RELATED TO THE INFORMATION DISCLSOURE STATEMENTS

The Applicant notes that the Information Disclosure Statement submitted electronically on August 6, 2003, is not listed among the attachments set forth in the Office Action Summary. Thus the Applicant is unable to determine whether this Information Disclosure Statement was placed in the Office files. To ensure the Examiner's consideration of this IDS, the Applicant attaches a copy of the IDS as Attachment 1 and the Office's Acknowledgement Receipt as Attachment 2.

### MATTERS RELATED TO THE CLAIMS

The Examiner has rejected claims 1, 2, 10, 13, 15 and 16 under Section 102(b) as anticipated by Kitchener (5,757,333).

To further define the invention over the cited art, the Applicant has amended claim 1 as set forth above in the marked-up version of the claim. In particular, the Applicant has amended the last paragraph of claim 1 to read, "a meanderline conductor comprising a first end for connecting to the ground plane and a second end connected to the second edge of the bottom element, wherein the meanderline conductor extends from the second end toward the second edge of the top element for terminating in the first end, and wherein a width of the meanderline conductor is less than a width of the top element."

With respect to Kitchener, he discloses an antenna as illustrated in Figure 4. The Kitchener antenna comprises a two-dimensional bent, folded monopole, arranged so that part of

the structure runs parallel to the ground plane and may comprise a copper film pattern 31 disposed on an insulating support board 32. The antenna is fed from the longer vertical leg 310, while the shorter vertical leg 311 is coupled to the ground plane. As can be seen from Figure 4, a first unnumbered horizontal segment extends from the vertical segment 310, a second unnumbered horizontal segment extends from the vertical segment 311 and an unnumbered vertical segment connects the first and the second unnumbered horizontal segments.

When compared with amended claim 1, it can be seen that Kitchener does not disclose or suggest the meanderline conductor that extends from its second end toward the second edge of the top element. In fact, in Kitchener, the element 311, which the Examiner has construed to represent the Applicant's meanderline conductor, extends vertically relative to the first unnumbered horizontal segment (assumed to represent the Applicant's top element), whereas the Applicant's meanderline conductor extends toward the second edge of the top element. Since Kitchener's conductor 311 is perpendicular to the first unnumbered horizontal segment, it is not possible for the conductor 311 to extend toward an edge of the first unnumbered horizontal segment. That is, a first element in a perpendicular relation to a second element cannot extend toward an edge of the second element. Thus the Applicant's invention is patentably distinct from Kitchener.

Further, note that there is no discussion within Kitchener of the relative width of the meanderline conductor and the top element. As can be seen from Applicant's amended claim 1, it is now claimed that the, "width of the meanderline conductor is less than a width of the top element."

Considering these remarks and the amendments to claim 1, it is respectfully submitted that claim 1 as amended is patentably distinct from Kitchener and is therefore in condition for allowance.

Support for the Applicant's amendments herein can be found in the various application figures, including Figure 2 and its related text description beginning in paragraph [030].

It is respectfully submitted that each of the rejected dependent claims 2, 10 and 13, depending directly from amended independent claim 1, includes one or more elements that further distinguish the invention over the art of record. These claims should therefore be in condition for allowance.

Claims 3-9, 11, 12 and 14 have been objected to but would be allowable if rewritten in independent form, including the limitations of the base claim and the intervening claims. While the Applicant appreciates the indication of allowable subject matter in these claims, the Applicant respectfully submits that these claims are currently in condition for allowance based on the amendments to claim 1 from which they depend. Thus, the rewriting of these claims is held in abeyance pending the Examiner's reconsideration of amended claim 1.

With respect to the rejection of independent claim 15, the Applicant has amended the fourth paragraph of the claim to, "an elongated meanderline conductor having a first end connected to a free end of the short leg element and extending in a direction of the free end of the long leg element for terminating in a second end comprising the ground terminal, and wherein a width of the elongated meanderline conductor is less than a width of the long leg planar element."

The remarks set forth above regarding the patentability of amended claim 1 over Kitchener apply with equal force here. Kitchener does not disclose or suggest a meanderline conductor . . . extending in a direction of the free end of the long leg element. Assuming arguendo the correctness of the Examiner's correlation of the Kitchener elements to the Applicant's elements, the Kitchener's element 311 is perpendicular to his element 310 and therefore cannot extend, "in a direction of the free end of the long leg element." The Applicant also calls to the Examiner's attention the relative width limitation set forth in amended claim 15.

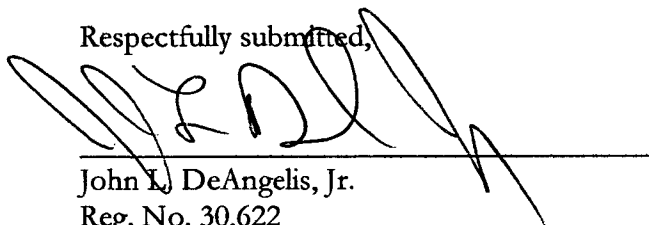
Rejected dependent claim 16 depending from amended independent claim 15 includes one or more elements that further distinguish the invention from the art of record. Thus this dependent claim should be in condition for allowance.

New claims 25 and 26 have been added. Support for these claims can be found at least in Figures 2 and 3 and the supporting text beginning in paragraph [030]. Among the distinguishing elements of claim 25 are the first and the second regions of the top plate, the relationship between the meanderline conductor and the top plate (as discussed relative to Kitchener above) and the relative widths of the meanderline conductor and the top element (also discussed above relative to Kitchener). Thus new claim 25 and its dependent claim 26 are believed to be allowable over the cited art.

The Applicant has attempted to comply with all of the points raised in the Office Action and it is believed that the remaining unallowed claims in the application, claims 1-16 and 25 and 26, are now in condition for allowance. In view of the foregoing amendments and discussion, it is requested that the Examiner's claim rejections and objections have been overcome. It is respectfully requested that the Examiner reconsider these rejections and objections and issue a Notice of Allowance for all claims pending in the application.

If a telephone conference will assist in clarifying or expediting this Amendment or the claim changes made herein, Examiner Vannucci is invited to contact the undersigned at the telephone number below.

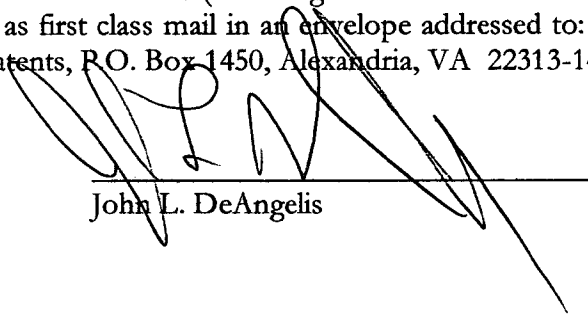
Respectfully submitted,



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CERTIFICATE OF MAILING

I HEREBY CERTIFY that this Amendment (including Attachments 1 and 2) is being deposited with the U.S. Postal Service as first class mail in an envelope addressed to: Mail Stop Fee Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 30<sup>th</sup> day of November, 2004.



John L. DeAngelis

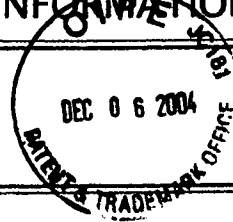


ATTACHMENT 1

INFORMATION DISCLOSURE STATEMENT OF AUGUST 6, 2003

# ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v1.8  
Stylesheet Version v1.8.0



Title of  
Invention

Ultra-Wide Band Meanderline Fed Monopole Antenna

Application Number: 10/418947 \*10/418947\*  
Confirmation Number: 9263  
First Named Applicant: Li Chen  
Attorney Docket Number: D025/069987-026  
Art Unit: 2821  
Search string: ( 4847625 or 5497164 or 5680144 or 5790080 or  
5926137 or 6057802 or 6320544 or 6323814 ).pn.

## US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	4847625	1989-07-11	Dietrich, et al			
	2	5497164	1996-03-05	Croq			
	3	5680144	1997-10-21	Sanad			
	4	5790080	1998-08-04	Apostolos			
	5	5926137	1999-07-20	Nealy			
	6	6057802	2000-05-02	Nealy, et al			
	7	6320544	2001-11-20	Korisch, et al			
	8	6323814	2001-11-27	Apostolos			

## Signature

Examiner Name	Date

ATTACHMENT 2

ACKNOWLEDGEMENT RECEIPT OF INFORMATION DISCLOSURE  
STATEMENT OF AUGUST 6, 2003



**UNITED STATES PATENT AND TRADEMARK OFFICE  
ACKNOWLEDGEMENT RECEIPT**

Electronic Version 1.1  
Stylesheet Version v1.1.1

<b>Title of Invention</b>	Ultra-Wide Band Meanderline Fed Monopole Antenna
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Submission Type: Information Disclosure Statement  
 Application Number: 10/418947 \*10/418947  
 EFS ID: 44870  
 Server Response:

Confirmation Code	Message
ISVR1	Submission was successfully submitted - Even if Informational or Warning Messages appear below, please do not resubmit this application
ICON1	9263
ISYS5	Filename= N/A BusinessRule= Validation System/Function Call Information. #Supporting Msg:Server unable to validate the Confirmation/Application numbers at this time. They will be checked by PTO personnel later.

First Named Applicant: Li Chen  
 Attorney Docket Number: D025/069987-026  
 Timestamp: 2003-08-06 14:45:39 EDT  
 From: us

File Listing:

Doc. Name	File Name	Size (B)
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us-ids	us-ids.dtd	
us-ids	us-ids.xsl	
package-data	SkyCross26-pkda.xml	
package-data	package-data.dtd	
package-data	us-package-data.xsl	
Total files size		





Message Digest: 5646a77394a11e3f00e95740d8b3d7166e6ffbf2

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