

## REMARKS

The Applicants appreciate the thoroughness with which the subject application has been examined. The Applicants further appreciate the allowance of claims 47-50 and the indication of allowable subject matter in claims 3-5, 7, 10, 16, 21, 23-25, 31, 37 and 57. By this amendment, claims 1, 22, 38 and 51 have been amended to overcome the Examiner's rejections and objections and more concisely claim and describe the present invention. New claim 58 has been added. Claim 3 has been cancelled. Claims 1, 2 and 4 - 58 remain in the application for reconsideration by the Examiner. The Examiner's allowance of all pending claims is earnestly solicited.

### MATTERS RELATED TO THE DRAWINGS

The Applicants hereby submit as Attachment 1 a replacement page including Figure 6, where the current paths 73 and 75 have been added. These paths 73 and 75 are referred to in paragraph [0052] in the application as originally filed, but were not indicated in Figure 6.

### MATTERS RELATED TO THE SPECIFICATION

The Applicants have identified two typographical informalities in the specification and propose to correct these informalities as indicated above in the marked-up specification paragraphs.

### MATTERS RELATED TO THE CLAIMS

The Examiner has objected to claim 38 as it cites a dependency from "claim 221." As the Examiner suggested, the Applicants have amended claim 38 to depend from claim 22 to correct this typographical error.

Within the first claim set comprising claims 1-21, Examiner Nguyen has rejected claims 1, 2, 6, 8, 9, 11-15 and 17-20 under Section 102(b) as anticipated by Greiser (4,063,246). Also within this claim set, the Examiner has objected to claims 3-5, 7, 10, 16 and 21, indicating that they would be allowable if re-written in independent form to include all limitations of the base claim and any intervening claims.

As set forth above, the Applicants have amended claim 1 by including within that claim the elements from objected to dependent claim 3 and canceling claim 3. Thus claim 1 should now be allowable. The Applicants have further amended claim 1 as related to the number of sides in the conductive region, three sides being the smallest number of sides that can form an enclosed region as illustrated in Figure 3C of the application.

As to rejected dependent claims 2, 6, 8, 9, 11-15 and 17-20, all depending directly or indirectly from amended independent claim 1, the Applicants respectfully submit that each of these dependent claims includes one or more elements that further distinguish the invention over the art of record. These claims should therefore be in condition for allowance. The Applicants do not concur with the Examiner's stated grounds of rejection for these dependent claims, based on text and figure citations from Greiser. However, for the sake of brevity in this response, the Applicants have elected not to refute the Examiner's dependent claim rejections noting only that the lack of a specific refutation is not to be construed as an admission as to the validity of the rejection or the applicability of the cited art. Instead, the Applicants rely on the allowance of independent claim 1 for the allowance of these dependent claims and further note that these dependent claims comprise additional elements that patentably distinguish the claim from the cited art.

As to the remaining objected to claims within the first claim set (i.e., claims 4, 5, 7, 10, 16 and 21), while the Applicants appreciate the indication of allowable subject matter in these claims, the Applicants respectfully submit that these claims are currently in condition for allowance based on the amendments to claim 1 from which they directly or indirectly depend. Thus, the re-writing of these claims is held in abeyance pending the Examiner's reconsideration of the allowability of these claims.

Within the second claim set, comprising claims 22-46, the Examiner has rejected claims 22, 26-30, 32-36 and 38-46 under Section 102(b) as anticipated by Greiser. Further, the Examiner has indicated that claims 23-25, 31 and 37 are objected to but would be allowable if re-written in independent form including the limitations of the base claim and intervening claims.

The Applicants have amended independent claim 22 as indicated above to more particularly define and distinguish the invention over the cited art. In particular, the

Applicants have added the following elements, “a first signal feed connected to the first monopole element and a second signal feed connected to the second monopole element.” Support for this change can be found in the Applicants’ Figure 1 and in the corresponding text in paragraph [0039].

Greiser discloses in his Figure 11, “a coplanar stripline antenna array of four antenna elements.” Greiser further notes that, “[a] coplanar stripline conducting strip 218 is used to feed all of the antenna elements.” See Greiser’s column 6, beginning at line 32 through line 40. Since the Applicants have amended claim 22 to refer to both a first signal feed and a second signal feed, each respectively feeding the first and second monopole elements, Greiser is patentably distinguished from the Applicants’ invention as set forth in amended claim 22.

Further, it is respectfully submitted that there is no disclosure in Greiser that would render the Applicants’ invention as set forth in amended claim 22 obvious under Section 103(a) since Greiser discloses a stripline antenna array having a stripline conducting strip feeding all of the antenna elements. The Applicants’ two monopole elements 14 and 16 would not be considered as comprising an antenna array and further are not commonly fed from a single stripline conducting strip.

As to rejected claims 26-30, 32-36 and 38-46, the Applicants contend that each of these claims, depending directly or indirectly from amended claim 22, includes one or more elements that further distinguish the invention over the art of record. These claims should therefore be in condition for allowance. The Applicants do not concur with the stated grounds of rejection for these dependent claims. However, for the sake of brevity in this response, the Applicants have elected not to refute the Examiner’s dependent claim rejections noting only that the lack of a specific refutation is not to be construed as an admission as to the validity of the rejection or the applicability of the cited art. Instead, the Applicants rely on the allowance of independent claim 22 for the allowance of these dependent claims, each of which sets forth additional elements that define the invention of the cited art.

As to objected to claims 23-25, 31 and 37, the Applicants suggest that the re-writing of these claims be held in abeyance until the Examiner has reconsidered the allowability of claim 22 from which they depend and thus the allowability of claims 23-25, 31 and 37.

Within the fourth set of claims, comprising claims 51-57, claims 51-56 stand rejected under Section 102(b) over Greiser, and claim 57 has been objected to but would be allowable if re-written.

To overcome this rejection, the Applicants have amended independent claim 51 to include a step, "forming a first signal feed connected to the first monopole element and a second signal feed connected to the second monopole element." Greiser does not teach the first and second signal feeds as suggested in the remarks above with respect to claim 22 and further does not suggest a step for forming the first and the second signal feeds with respect to method claim 51. Thus, claim 51 as amended is believed to be allowable over the art of record.

It is believed that claims 52-56, depending from claim 51, are now in condition for allowance based on the amendment to claim 51 from which they depend, and further set forth other patentable features of the present invention. The Applicants do not concur with the stated grounds of rejection for these dependent claims based on the Examiner's text and figure citations from Greiser that have been applied against these dependent claims. However, for the sake of brevity in this response, the Applicants have elected not to refute the Examiner's dependent claim rejections noting only that the lack of a specific refutation is not to be construed as an admission as to the validity of the rejection or the applicability of the cited art. Instead, the Applicants rely on the allowance of independent claim 51 for the allowance of these dependent claims, each of which claims additional elements that further distinguish the claim from the prior art.

The Applicants suggest that the re-writing of objected to claim 57 be held in abeyance until the Examiner has reconsidered the allowability of amended claim 51.

Further, it is respectfully submitted that there is no disclosure in Greiser that would render the Applicants' invention as set forth in amended claim 51 obvious under Section 103(a) since Greiser discloses a stripline antenna array having a stripline conducting strip feeding all of the antenna elements. The Applicants' two monopole elements 14 and 16

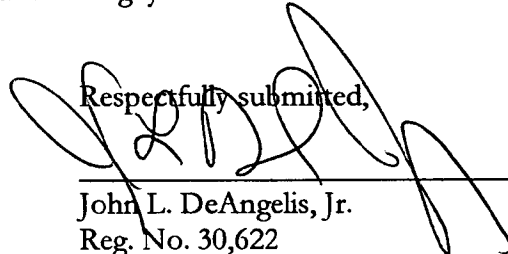
would not be considered an antenna array as they are not commonly fed from a single stripline conducting strip, thus the method for forming the first and second signal feeds is not suggested or inferred from Greiser.

The Applicants have added a new claim 58 as set forth above. The Applicants respectfully submit that it suggests patentably distinct subject matter in the form of two operative modes for the antenna of the present invention and further depends from independent claim 22, which is now believed to be in allowable condition. Support for new claim 58 can be found in paragraph [0051].

The Applicants have attempted to comply with all of the points raised in the Office Action and it is believed that the remaining claims in the application, i.e., claims 1-58, are now in condition for allowance. In view of the foregoing amendments and remarks, it is requested that the Examiner's claim rejections 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 amendments made herein, Examiner Nguyen is invited to contact the undersigned at the telephone number below.

Respectfully submitted,

  
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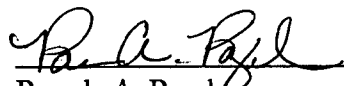
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#### CERTIFICATE OF MAILING

I HEREBY CERTIFY that the foregoing Amendment is being deposited with the U.S. Postal Service as first class mail in an envelope addressed to: Mail Stop Non-Fee Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 4th day of April, 2005.

  
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Pamela A. Pagel

ATTACHMENT 1  
Replacement sheet for Figures 4 - 6