

FORM PTO-1595
1/31/92

09-16-2003



U.S. DEPARTMENT OF COMMERCE
EET PATENT AND TRADEMARK OFFICE

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102551407

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copies thereof.

1. Name of conveying party(ies):
Kenneth E. Westall

9.3.03

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other: _____

Execution Date: August 14, 2003

2. Name and address of receiving party(ies):

Broadcom Corporation
16215 Alton Parkway
Irvine, CA 92618

Additional name(s) & address(es) attached? Yes No

22264 U.S. PTO
10/654507



4. Application number(s) or patent number(s):

10654507

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Shawn L. Peterson
McAndrews, Held & Malloy, Ltd.
500 W. Madison, 34th Floor
Chicago, IL 60661

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

- Enclosed.
- Authorized to be charged to deposit account.

8. Deposit account number: 13-0017.

(Attach duplicate copy of this page if paying by deposit account).

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Signature and Registration Number:

Shawn L. Peterson

Date: September 3, 2003

Registration No. 44,286

Name of Person Signing: Shawn L. Peterson

Total number of pages including cover sheet, attachments and document: 4

09/15/2003 DBYRNE 00000092 10654507
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ASSIGNMENT
(sole inventor)

I am the sole inventor whose name and residence is listed below:

1. **Kenneth E. Westall**, a resident of the City of Clayton, North Carolina, and Country of United States of America.

I have made an invention comprising certain new, useful, and nonobvious improvements in

**COMMUNICATION SATELLITE CELLULAR COVERAGE
POINTING CORRECTION USING UPLINK BEACON SIGNAL**

Said invention is described or intended to be described and set forth in the patent application presently identified as Docket No. 12230US01 (22-0041), which I executed on or about the same date(s) as I signed this assignment for the purpose of seeking Letters Patent of the United States for our invention.

Northrop Grumman Corporation,

Check state of incorporation.

a corporation organized and existing under and by virtue of the laws of the State of Delaware, having a place of business at **1840 Century Park East, Los Angeles, CA 90067-2199**, (hereinafter: "said assignee") desires to acquire the entire right, title, and interest in and to said invention, said application, and any Letters Patent which may be granted for said invention, said application, and any and all divisions, continuations, continuations-in-part, reissues, reexamination certificates, and extensions thereof.

I warrant and represent that I conceived said invention myself, that no one other than me is a joint inventor of said invention, and that I have not assigned or agreed to assign any rights in said invention or said application to anyone other than said assignee or a predecessor in interest to said assignee.

NOW, THEREFORE, in accordance with obligations entered into pursuant to an Employee Innovation and Proprietary Information Agreement or other agreement and for other good and valuable consideration of which I acknowledge receipt, I hereby assign to said assignee, its successors and assigns, the entire worldwide right, title, and interest in and to said invention, said application, and any Letters Patent which may be granted for said invention, said application, and any and all divisions, continuations, continuations-in-part, reissues, reexamination certificates, substitutes, and extensions of said application (each of which is included herein as a part of "said application"), including but not limited to all my United States and other national rights to said invention and said application and all my rights under the Paris Convention for the Protection of Industrial Property and all other applicable treaties or laws in respect to said invention and said application.

KCW

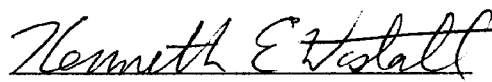
I hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any Letters Patent which may be granted for said invention or upon said application unto said assignee, its successors and assigns, in accordance with this assignment.

I hereby authorize said assignee to apply for patents on said invention in foreign countries, claiming the filing date of said application under the provisions of the Paris Convention for the Protection of Industrial Property and all other applicable treaties and laws, and I further agree to execute any and all documents that may be required or desired by said assignee in order that said assignee may apply for Letters Patent on said invention in foreign countries in my or its name.

I hereby agree to promptly communicate to said assignee or its representatives any facts known to me respecting said invention or said application; to testify in any legal proceeding relating thereto; to sign all lawful papers, including but not limited to all divisional, continuing, continuing-in-part, reissue, substitute, and extension applications, all rightful oaths or declarations, and documents confirming or substituting for this assignment.

REW

Signed at Clayton, in the County of Johnston and State of North Carolina this
14th day of August, 2003.



Kenneth E. Westall