

11-28-2006



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HEET

U.S. DEPARTMENT OF COMMERCE  
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Docket-PD-015-1346

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

1. Name of conveying party(ies):

- (1) Ming Chen
- (2) Mark A. Curry
- (3) Kenneth G. Voyce

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

THE BOEING COMPANY  
100 NORTH RIVERSIDE  
CHICAGO, ILLINOIS 60606

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

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

3. Nature of conveyance:

☒ Assignment

Execution Date: (1) November 17, 2006, (2) November 17, 2006, (3) November 17, 2006

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

If this document is being filed together with a new application, the execution date of the application is: November 17, 2006

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☒ No

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

Name: Victor G. Cooper  
Address: GATES & COOPER LLP  
6701 Center Drive West, Suite 1050  
Los Angeles, California 90045

6. Total number of applications and patents involved: One

7. Total fee (37 CFR 3.41): \$40  
☒ Authorized to be charged to Deposit Account No. »50-0494 of Gates and Cooper LLP.

8. Please charge any additional fees or credit any overpayments to Deposit Account No. 50-0494.

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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.

Victor G. Cooper

Name of Person Signing

Signature

November 20, 2006

Date

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

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PATENT  
REEL: 018601 FRAME: 0657

# ASSIGNMENT

WHEREAS, Ming Chen, Mark A. Curry, and Kenneth G. Voyce (hereinafter "Assignor(s)"), made certain new and useful inventions and improvements which are entitled PHASED ARRAY ANTENNA BEAM TRACKING WITH DIFFERENCE PATTERNS and which are disclosed in:

☒ U.S. Application filed on same date herewith and listing the above named person(s) as inventor(s)

AND WHEREAS, The Boeing Company, a Delaware corporation having a principal place of business at 100 North Riverside, Chicago, Illinois 60606 (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar and other good and valuable considerations, the receipt and sufficiency whereof is hereby acknowledged, Assignor(s) have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and do hereby authorize and request the Commissioner for Patents to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

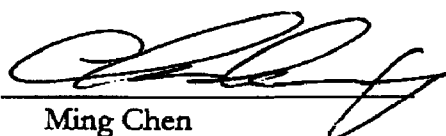
AND, for the consideration aforesaid, Assignor(s) do hereby agree that they and their executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to Assignor(s) relating to said improvements and the history thereof and will testify in all legal

(G&C 147.180-US-01)

proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore Assignor(s) covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by Assignor(s) and that full right to convey the same as herein expressed is possessed by Assignor(s). An attorney of record is authorized and requested by the execution of this assignment to insert into this assignment the filing date and serial number of said application when officially known.

Date: 11-17-2006

Signature:   
Name: Ming Chen

Date: 11/17/2006

Signature:   
Name: Mark A. Curry

Date: 11-17-2006

Signature:   
Name: Kenneth G. Joyce