

07-17-1998

FORM PTO-1596  
1-31-92

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

DOCKET NO.: 48936-013



100766367

To the Honorable Commissioner of Patents and Trademarks, original documents or copy thereto:

MAR 7-9-98

1. Name of conveying party(ies):  
Byung Kwan Yi

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

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

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Internal Address: \_\_\_\_\_

Street Address: 21700 Atlantic Boulevard

City: Dulles State/Country: VA ZIP: 20166

Execution Date: July 7, 1998

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

4. Application number(s) or patent number(s):  
If the document is being filed together with a new application, the execution date of the application is: July 7, 1998

A. Patent Application No(s).  
09/110395

B. Patent No(s).  
\_\_\_\_\_

Additional numbers attached?  Yes  No

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

Name: McDERMOTT, WILL & EMERY

Internal Address: \_\_\_\_\_

Street Address: 99 Canal Center Plaza, Suite 300

City: Alexandria State: VA ZIP: 22314

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:

500417

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.

Keith E. George, 34,111  
Name and Registration No. of Person Signing

Signature

July 7, 1998  
Date

Total number of pages comprising cover sheet: 1

CMB No. 0851-0011 (exp. 4/94)

10511 U.S. P.T.O.  
09/110395  
07/07/98

07/16/1998 JMW/KINS 0000007 500417 40.00 CH  
01/FC:501

PATENT  
REEL: 9307 FRAME 0340

ASSIGNMENT

AS I, Byung Kwan Yi of Derwood, Maryland, have made a certain new and useful invention as set forth in my application for United States Letters Patent, entitled COMMUNICATIONS SYSTEM HANDOFF OPERATION COMBINING TURBO CODING AND SOFT HANDOFF TECHNIQUES, executed by me on the date of execution of this document, as shown below, and filed concurrently herewith;

AND WHEREAS, Orbital Sciences Corporation, a corporation of the State of Delaware and having an address of 21700 Atlantic Boulevard, Dulles, Virginia 20166 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I do hereby sell, assign, transfer and set over unto Orbital Sciences Corporation, its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including the right of priority and including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;

UPON SAID CONSIDERATIONS, I hereby agree with the said assignee that I will not execute any writing or do any act whatsoever conflicting with these presents, and that I will, at any time upon request, without further or additional consideration but at the expense of said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and assignee;

AND I request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said Orbital Sciences Corporation, its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

7/7/98  
Date  
*Byung Kwan Yi*  
Byung Kwan Yi

STATE OF Virginia )  
City ) SS:  
COUNTY OF Alexandria )

On this 7th day of July, 1998, before me personally appeared **Kyung Kwan Yi**, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

S E A L  
Notary Public *P. Diane Rogers*  
My commission expires *2/28/99*