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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

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| <p>1. Name of conveying party(ies): Richard S. KONAPELSKY (07/29/2005) and John WOJTOWICZ (09/09/2005)</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> | <p>2. Name and address of receiving party(ies)</p> <p>Name: <u>Northrop Grumman Corp.</u></p> <p>Internal Address: _____</p> <p>Street Address: _____</p> <p>Electronics Sensors Systems Div. Law Department P.O. Box 17319 MS A440</p> <p>City: <u>Baltimore</u></p> <p>State: <u>Maryland</u></p> <p>Country: <u>United States of America</u> Zip: <u>21203-7319</u></p> <p>Additional name(s) & address(es) attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> |
| <p>3. Nature of conveyance/Execution Date(s):</p> <p>Execution Date(s): <u>in parentheses after inventor name</u></p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Joint Research Agreement</p> <p><input type="checkbox"/> Government Interest Assignment</p> <p><input type="checkbox"/> Executive Order 9424, Confirmatory License</p> <p><input type="checkbox"/> Other _____</p> | |

4. Application or patent number(s): This document is being filed together with a new application.

A. Patent Application No.(s)
This application

B. Patent No.(s)

Additional numbers attached? Yes No

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| <p>5. Name and address to whom correspondence concerning document should be mailed:</p> <p>Name: <u>William L. Gates</u> <u>BIRCH, STEWART, KOLASCH & BIRCH, LLP</u></p> <p>Internal Address: <u>Atty. Dkt.: 1215-0538PUS1</u></p> <p>Street Address: <u>8110 Gatehouse Rd</u> <u>Suite 100 East</u> <u>P.O. Box 747</u></p> <p>City: <u>Falls Church</u></p> <p>State: <u>VA</u> Zip: <u>22040-0747</u></p> <p>Phone Number: <u>(703) 205-8000</u></p> <p>Fax Number: <u>(703) 205-8050</u></p> <p>Email Address: <u>mailroom@bskb.com</u></p> | <p>6. Total number of applications and patents involved: 1</p> <p>7. Total fee (37 CFR 1.21(h) & 3.41) \$ <u>40.00</u></p> <p><input type="checkbox"/> Authorized to be charged by credit card</p> <p><input type="checkbox"/> Authorized to be charged to deposit account</p> <p><input checked="" type="checkbox"/> Enclosed</p> <p><input type="checkbox"/> None required (government interest not affecting title)</p> <p>8. Payment Information</p> <p>a. Credit Card Last 4 Numbers _____ Expiration Date _____</p> <p>b. Deposit Account Number _____ Authorized User Name _____</p> |
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9. Signature:

William L. Gates
Signature

September 16, 2005
Date

William L. Gates - 20,848
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 2

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N.G. Case 1215-0538PUS1 (000758-078)

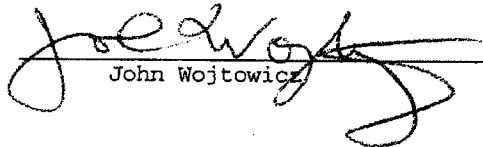
ASSIGNMENT JOINT

In accordance with existing Employee Intellectual Property Agreement(s) and/or other undertaking(s) entered into for good and valuable consideration, receipt of which is hereby acknowledged, we, Richard S. Konapelsky of Columbia, MD 21044, and John Wojtowicz of Hampstead, MD 21074, hereby sell and assign to **NORTHROP GRUMMAN CORPORATION**, a Corporation organized and existing under the laws of Delaware, U.S.A., having its principal place of business at 1840 Century Park East, Los Angeles, California 90067-2199, U.S.A., its successors, assigns, nominees, or other legal representatives, the entire right, title and interest in and to the invention in **IMPROVED THINNED ARRAY ANTENNA SYSTEM**, invented by us and the application for United States patent therefor, executed on the same day as the assignment is executed and all original and reissued patents granted therefor, and all divisions and continuations thereof, including the subjects-matter of any and all claims which may be obtained in every such patent, and the right to apply for and obtain patents and Utility Model Registrations in countries foreign to the United States, and in and to any Letters Patent or Utility Model Registration which may be granted thereon in such foreign countries, and authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue the said Letters Patent or Utility Model Registration to the said **NORTHROP GRUMMAN CORPORATION** its successors, assigns, nominees or other legal representatives, as assignee of the entire interest, and covenant that we have full right to convey the entire interest herein assigned and that we have not executed and will not execute any agreement in conflict herewith, and agree that we will communicate to said Corporation, its successors, assigns, nominees or other legal representatives, all facts known to us respecting said invention, whenever requested, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and do all lawful acts requisite for the application for such divisional, continuing or reissue applications, or the procuring thereof, and that if and when said **NORTHROP GRUMMAN CORPORATION** its successors, assigns, nominees or other legal representatives desire to file a disclaimer relating thereto, we will, upon request, sign all lawful papers requisite for the filing of such disclaimer, and we further covenant and agree that we will, at any time upon request, do everything legally possible to aid said Corporation, its successors, assigns, nominees or other legal representatives, either in its or their own name, to apply for, obtain and enforce proper patent and/or Utility Model protection for said invention in all countries, all without further consideration but at the expense of said **NORTHROP GRUMMAN CORPORATION** its successors, assigns, nominees or other legal representatives.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 29 day
of July, 2005.


Richard S. Konapelsky

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 9 day
of September, 2005.


John Wojtowicz