

12-31-1998



To the Honorable Commissioner of Patents

100933689

Original documents or copy thereof.

MC9 12-18-98

<p>1. Name of conveying party(ies): Osamu Yamamoto and Ryuichi Iwata</p> <p>Additional names of conveying party(ies) attached? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>		<p>2. Name and address of receiving party(ies) Name: NEC CORPORATION</p> <p>Internal Address:</p> <p>Street Address: 5-1, Shiba 5-chome, Minato-ku City: Tokyo Country: Japan</p> <p>Additional name(s) &amp; address(es) attached? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no</p>	
<p>3. Nature of Conveyance</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____</p> <p>Execution Date: December 11, 1998</p>			
<p>4. Application number(s) or patent number(s): Title: ANTENNA FOR COMMUNICATING WITH LOW EARTH ORBIT SATELLITE If this document is being filed together with a new application, the execution date of the application is <u>December 11, 1998</u></p> <p>A. Patent Application No(s). B. Patent No(s).</p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>			
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>C. Lamont Whitham Whitham, Curtis &amp; Whitham Reston International Center 11800 Sunrise Valley Drive Suite 900 Reston, Virginia 20191</p>		<p>6. Total number of applications and patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41): <u>\$ 40.00</u> <input checked="" type="checkbox"/> Enclosed</p> <p><input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Total fee due <input checked="" type="checkbox"/> Any deficiencies in the enclosed fees</p> <p>8. Deposit account number: 23-1951 (WHITHAM, CURTIS &amp; WHITHAM)</p>	
<p>9. Statement and signature</p> <p>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.</p> <p><u>C. Lamont Whitham</u> Name of Person Signing</p> <p><u>[Signature]</u> Signature</p> <p><u>12/18/98</u> Date</p> <p>Total number of pages including cover sheet: <u>3</u></p>			

10542 U.S. PTO  
09/215219  
12/18/98

12/30/1998 DNGUYEN 00000160 09215219

01 FC:581

40.00 OP

**ASSIGNMENT FOR UNFILED APPLICATION FOR UNITED STATES  
PATENT**

*(Sole or Joint Inventors)*

FULL NAME(S) AND  
POST OFFICE ADDRESS(S)  
OF INVENTOR(S) (including  
country)

WHEREAS: OSAMU YAMAMOTO  
c/o NEC Corporation  
7-1, Shiba 5-chome, Minato-ku,  
Tokyo, Japan, and

RYUICHI IWATA  
c/o NEC Corporation  
7-1, Shiba 5-chome, Minato-ku,  
Tokyo, Japan

TITLE OF  
INVENTION

(hereinafter referred to as ASSIGNOR), have invented and  
own a certain invention entitled:

ANTENNA FOR COMMUNICATING WITH LOW EARTH ORBIT  
SATELLITE

for which application for Letters Patent of the United States  
has been executed on even date herewith,

FULL NAME AND  
ADDRESS (including country)  
OF ASSIGNEE

WHEREAS: NEC Corporation  
7-1, Shiba 5-chome, Minato-ku,  
Tokyo, Japan

(hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:  
Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to said invention in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, division, renewal, substitute or reissue thereof or

(Assignment for Unfiled Application for United States Patent—page 1 of 2)

any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand  
and seal this December 11, 1998

(Date of Signing)

**Warning**

**DATE OF SIGNING:**

This must be the same as the date of signing of the declaration and power of the patent or design application.

**SIGNATURE(S)**

The signature(s) must correspond with the name(s) of the inventor(s) above.

Osamu Yamamoto  
(Signature) OSAMU YAMAMOTO

Ryuichi Iwata  
(Signature) RYUICHI IWATA

(Signature)

Witness:

Toshio Fujita

[Signature]

Instruction  
sheet for  
assignment  
Signing

All information, names of inventor(s) and assignee, title of invention and particulars of application should be completed.

No witnessing or legalization is necessary. However, if this assignment is legalized then it will only be prime facie evidence of the execution of the assignment.

(Assignment for Unfiled Application for United States Patent—page 2 of 2)