To the Honorable Commissioner of Patent

04-20-2001

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office Docket No.: DP-479US

original documents or copy thereof.

1. Name of conveying party(ies): Takahisa Shirakawa Additional names of conveying party(ies) attached? yes Ø no 3. Nature of Conveyance Assignment Merger Security Agreement Change of Name Other Execution Date: March 30, 2001	2. Name and address of receiving party(ies): Name: NEC CORPORATION Internal Address: Street Address: 7-1, Shiba 5-chome, Minato-ku City: Tokyo Country: Japan Additional name(s) & address(es) attached? yes
4. Application number(s) or patent number(s): Title: BROADCASTING SERVICE SYSTEM AND DELAY BROADCASTING METHOD IN BROADCASTING SERVICE USING THE BROADCASTING SERVICE SYSTEM If this document is being filed together with a new application, the execution date of the application is March 30, 2001 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: C. Lamont Whitham, Esq. McGuireWoods LLP 1750 Tysons Boulevard, Suite 1800 McLean, VA 22102 (703)712-5000 	6. Total number of applications and patents involved:
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. C. Lamont Whitham Name of Person Signing April 4, 2001 Date Total number of pages including cover sheet:3	

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REEL: 011685 FRAME: 0789

PATENT OR DESIGN: SOLE OR JOINT

(U.S. and Foreign Rights)

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: TAKAHISA SHIRAKAWA c/o NEC Corporation, 7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan

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

TITLE OF INVENTION

BROADCASTING SERVICE SYSTEM AND DELAY BROADCASTING METHOD IN BROADCASTING SERVICE USING THE BROADCASTING SERVICE SYSTEM

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

WHEREAS:

NEC Corporation

7-1, Shiba 5-chome, Minato-ku,

Tokyo, Japan

FULL NAME AND
ADDRESS (including country)
OF ASSIGNEE

(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 AS-SIGNEE 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)

PATENT REEL: 011685 FRAME: 0790 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 March 30, 2001

(Date of Signing)

Takahisa Shirakana (Signature) TAKAHISA SHIRAKAWA
(Signature)

Witness:

hobuyuki Iwakata

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)

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.

Instruction sheet for assignment Signing

RECORDED: 04/04/2001