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Case Docket No. **991071**

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

MRD
9-24-99

RECORDATION FORM COVER SHEET
PATENTS ONLY

To the Assistant Commissioner for Patents.
Please record the attached original documents or copy thereof.

1. Name of conveying parties:

Yoshiharu DOI and Toshinori IINUMA

Additional name(s) of conveying parties attached? Yes No XX

2. Name and address of receiving party:

Name: **SANYO ELECTRIC CO., LTD.**

Street Address:

5-5, Keihanhondori 2-chome
Moriguchi-shi, Osaka
JAPAN

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

3. Nature of conveyance: **Assignment**

Execution Date: **September 14, 1999**

4. Title: **RADIO APPARATUS HAVING TRANSMISSION DIRECTIVITY CAPABLE OF SUPPRESSING MUTUAL INTERFERENCE OF RADIO SIGNALS BETWEEN USERS AND METHOD OF CONTROLLING THE SAME**

10/04/1999

02 FC:581

5. 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: **September 14, 1999**

A. Patent Application No.(s) B. Patent No.(s)

Additional numbers attached? Yes No XX

1510 U.S. PTO
09/405139
09/24/99

09/405,139

PEOPLES 00000006 09405139

40.00 DP

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

Name: Armstrong, Westerman, Hattori,
McLeland & Naughton
Suite 1000
1725 K Street, N.W.
Washington, D.C. 20006

7. Total number of applications and patents involved: 1

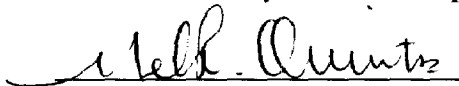
8. Total fee (37 CFR 3.41). \$ **40.00**

XX Check enclosed

9. Deposit Account No.: **01-2340**
(Two copies of this paper are attached.)

10. 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.



Date September 24, 1999

Mel R. Quintos
Reg. No.: **31,898**

Total number of pages including cover sheet: 4

MRQ/llf

ASSIGNMENT

Application No. _____

Filed _____

Insert Name(s)
of Inventor(s)

WHEREAS, Yoshiharu DOI and Toshinori IINUMA

Insert Title
of Invention

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in _____

Radio Apparatus Having Transmission Directivity Capable of Suppressing
Mutual Interference of Radio Signals Between Users and Method of
Controlling the Same

for which an application for Letters Patent of the United States of America has been executed by the undersigned

Insert Date
of Signing of
Application

on September 14, 1999; and

Insert Name
of Assignee

WHEREAS, Sanyo Electric Co., Ltd.

Insert Address
of Assignee

of 5-5, Keihanhondori 2-chome, Moriguchi-shi, Osaka, Japan

CHECK BOX
IF APPROPRIATE

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of
acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that
may be granted therefor in the United States of America and

☒ in any and all foreign countries.

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand
paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned
has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said
Assignee the full and exclusive right to the said invention in the United States of America, its territories,
dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s)
which may be granted therefor in the United States of America, its territories, dependencies and possessions,
and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for
which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof or Letters Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

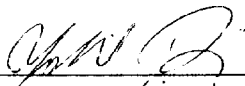
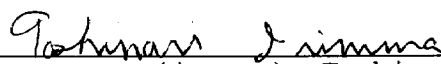
The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) the request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Armstrong, Westerman, Hattori, McLeland & Naughton the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

Date <u>September 14, 1999</u>	Name of Inventor <u></u> (signature) Yoshiharu DOI
Date <u>September 14, 1999</u>	Name of Inventor <u></u> (signature) Toshinori IINUMA
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)