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05-22-2002

U.S. Department of Commerce
Patent and Trademark Office

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102099652

Our Ref.: 914-154

Commissioner of Patents and Trademarks
Box Assignment, Washington, D.C. 20231

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Tetsuyuki OHTANI
Atsushi NAGANO

05/16/02

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

Name: Sharp Kabushiki Kaisha

Internal Address:

Street Address: 22-22, Nagaike-cho, Abeno-ku, Osaka-shi

City: Osaka

State/Country: Japan

Zip:

Additional name/s of conveying party/ies attached? ☐

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Assignment

☐ Change of Name

☐ Other

Execution Date: May 15, 2002

Additional name/s & address/es attached? ☐ Yes ☒ No

4. 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:

May 15, 2002

A. Patent Application No(s).

(1) To be assigned

(2)

(3)

B. Patent No(s).

(1)

(2)

(3)

Additional numbers attached ☐ Yes ☒ No

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

Name: Mark E. Nusbaum

Internal Address:

Street Address: Nixon & Vanderhye P.C.

1100 North Glebe Road

8th Floor

City: Arlington State: VA Zip: 22201

6. Total number of applications & patents involved: 1

7. Total fee (37 CFR 3.41)

\$ 40.00

☒ Enclosed

☐ Authorized to be charged to deposit account #14-1140

8. The Commissioner is hereby authorized to charge any deficiency, or credit any overpayment, in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No. 14-1140.

DO NOT USE THIS SPACE

9. Statements 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.

Mark E. Nusbaum

Name of Person Signing
Reg. No. 32,348

Signature 35,329

May 16, 2002

Date

Total number of pages including original cover sheet, attachments, and document: [3]

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United States Patent Rights, or
United States plus All Foreign Patent RightsATTORNEY DOCKET NO.
ASSIGNMENT

Application No. _____

Filed _____

Insert Name(s)
of Inventor(s) ➡WHEREAS, Tetsuyuki OHTANI and Atsushi NAGANO

_____Insert Title
of Invention ➡

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

POLARIZED WAVE SEPARATING STRUCTURE, RADIO WAVE RECEIVING
CONVERTER AND ANTENNA APPARATUS

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 May 15, 2002 _____; and

Insert Name
of Assignee ➡WHEREAS, Sharp Kabushiki Kaisha

_____Insert Address
of Assignee ➡of 22-22, Nagaike-cho, Abeno-ku, Osaka-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.

PATENT

REEL: 012895 FRAME: 0858

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 Nixon & Vanderhye P.C. 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.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

| | | | |
|------|---------------------|------------------|---------------------------------------------|
| Date | <u>May 15, 2002</u> | Name of Inventor | <u>Tetsuyuki Ohtani</u> Tetsuyuki OHTANI |
| Date | <u>May 15, 2002</u> | Name of Inventor | <u>Akiyoshi Nagano</u> AKIYOSHI NAGANO |
| Date | _____ | Name of Inventor | _____ |
| Date | _____ | Name of Inventor | _____ |
| Date | _____ | Name of Inventor | _____ |
| Date | _____ | Name of Inventor | _____ |
| Date | _____ | Name of Inventor | _____ |
| Date | _____ | Name of Inventor | _____ |
| Date | _____ | Name of Inventor | _____ |

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RECORDED: 05/16/2002

REEL: 012895 FRAME: 0859