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27 DEC 2002

Docket No.: 58,499 (72012)

FORM PTO-1595 (Modified)
(Rev. 03-01)
OMB No. 0651-0027 (exp. 5/31/2002)
POBA/REV03

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To the Honorable Commissioner of Patents

102361388

Record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Yoshitoshi SHOJI
Hideo NANBA

12-27-02

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: **December 16, 2002**

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

Name: **SHARP KABUSHIKI KAISHA**

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

City: **Osaka** State/Prov.: _____

Country: **JAPAN** ZIP: **545-8522**

Additional name(s) & address(es)

☐ Yes ☒ No

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: **December 16, 2002**

Patent Application No. _____ Filing date _____

B. Patent No.(s) _____

Additional numbers

☐ Yes ☒ No

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

Name: **David A. Tucker**

Registration No. **27,840**

Address: **Dike, Bronstein, Roberts & Cushman**

Intellectual Property Group, Edwards & Angell, LLP

P.O. Box 9169

City: **Boston** State/Prov.: **MA**

Country: **USA** ZIP: **02209**

6. Total number of applications and patents involved: **1**

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

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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.

David A. Tucker

David A. Tucker

December 27, 2002

Name of Person Signing

Signature

3

Date

Total number of pages including cover sheet, attachments, and

Mail documents to be recorded with required cover sheet information to:
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Washington, D.C. 20231

PATENT
REEL: 013731 FRAME: 0475

Attorney's Docket No.: 58,499 (72012)**Assignment of Application**

WHEREAS, I (WE) _____

Yoshitoshi SHOJI of 706-2-F101, Kamatoricho, Midori-ku, Chiba-shi,Chiba 266-0011 JapanHideo NANBA of C214, Rapport Honda, 2-24-7, Hondacho, Midori-ku, Chiba-shi,Chiba 266-0005 Japan

_____, respectively,

have invented certain new and useful improvements in: METHOD OF MANAGING A
COMMUNICATION NETWORK, AND COMMUNICATION DEVICEfor which an application for Letters Patent was executed on December 16, 2002

(Application No. _____, filed _____), and

WHEREAS, SHARP KABUSHIKI KAISHA

(hereinafter referred to as "ASSIGNEE") having a place of business at: _____

22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522 Japan

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any official of any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its legal representatives and assigns covenant and any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Dike, Bronstein, Roberts & Cushman Intellectual Property Group of Edwards & Angell, LLP of 101 Federal Street, Boston, Massachusetts 02110 U.S.A. the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: December 16, 2002

Yoshitoshi Shoji

(Signature of inventor) Yoshitoshi SHOJI

Date: December 16, 2002

Hideo Namba

(Signature of inventor) Hideo NANBA