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R SHEET

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

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Tab settings

To the Honorable Commissioner of Patents and Trademarks. Forward the attached original documents or copy thereof.

1. Name of conveying party(ies):
HIROSHI KINEMURA

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

Name: **SHARP KABUSHIKI KAISHA**

Address: **22-22, Nagaike-Cho, Abeno-Ku**

Additional names(s) of conveying party(ies) Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other July 24, 2000

City: **Osaka 545-0013** State/Prov.: _____

Country: **Japan** ZIP: _____

Execution Date: _____

Additional name(s) & address(es) Yes No

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

If this document is being filed together with a new application, the execution date of the application is: **July 24, 2000**

Patent Application No. _____ Filing date _____

B. Patent No.(s)

09629339

Additional numbers Yes No

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

Name: **David G. Conlin**

Registration No. **27026**

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

Intellectual Property Group

EDWARDS & ANGELL, LLP, 130 Water Street

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

Country: **USA** ZIP: **02109**

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

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

- Enclosed - Any excess or insufficiency should be credited or debited to deposit account
- Authorized to be charged to deposit account

8. Deposit account number:

04-1105

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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 G. Conlin (Reg. No. 27026)

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and

3

ASSIGNMENT

WHEREAS, the following inventor(s): Hiroshi KINEMURA

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in
CABLE MODEM HAVING A WIRELESS COMMUNICATION FUNCTION

for which application for Letters Patent of the United States has been filed on _____,
Serial No. _____; and

WHEREAS, SHARP KABUSHIKI KAISHA, a Japanese Corporation
having its principal place of business at 22-22, Nagaïke-Cho, Abeno-Ku, Osaka 545-0013
Japan, 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 to any Letters Patent(s) that
may be granted therefor in the United States of America;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and
valuable consideration to the undersigned, the receipt of which is hereby acknowledged, the
undersigned has (have) sold, assigned and transferred, and by these presents do sell, assign and
transfer unto said Assignee the full and exclusive right to the said invention in the United States of
America and 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 and its
territories, dependencies and possessions, and in 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 furnish all pertinent facts and documents relating to said
application, said invention and said patent(s) as may be known and accessible to the undersigned, and
will testify as to the same in any interference or litigation related thereto, and will promptly execute and
deliver to Assignee any and all papers, instruments or affidavits necessary or desirable to apply for,
obtain, maintain or enforce said application or said patent(s) in connection with any interference which
may be declared, and any litigation concerning this application or any continuation, division or reissue
thereof or Patent(s) or reissue patent(s) issued thereon, and to cooperate with the Assignee in every way
possible in obtaining and producing evidence and proceeding with such interference or litigation.

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 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 grant(s) the law firm of Dike, Bronstein, Roberts & Cushman, LLP of 130 Water Street, Boston, Massachusetts 02109-4280, U.S.A. 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 authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue any and all Letters Patents of the United States of America resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he or she has the full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement in conflict herewith.

In witness whereof, signed by the undersigned on the date(s) opposite the undersigned names.

Date: July 24, 2000

Signature of Inventor: *Hiroshi Kinemura*

Name: Hiroshi KINEMURA

Date: _____

Signature of Inventor: _____

Name: _____

Date: _____

Signature of Inventor: _____

Name: _____

Date: _____

Signature of Inventor: _____

Name: _____

Date: _____

Signature of Inventor: _____

Name: _____