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cket No.: 49876(551)

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

1. Name of conveying party(ies):
**KAZUYUKI SUMI, HIROHISA WAKAI,
TAKASHI NISHIMURA, YUJI ICHIKAWA,
MASAFUMI TAKAHASHI, DAISUKE NAKANO,
TORU UEDA, KAZUHITO NAGURA**

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

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

Name: **SHARP KABUSHIKI KAISHA**

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

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

Country: **Japan** ZIP: _____

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

3. Nature of conveyance: **9-21-00**

Assignment Merger

Security Agreement Change of Name

Other _____

Execution Date: **June 21, 2000**

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: _____

Patent Application No.	Filing date	B. Patent No.(s)
09/580,478	5/26/00	
09/2/2000 NPRA5ASD 00000030 09580478		
03 00:581	40.00 JP	

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 Practice 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**

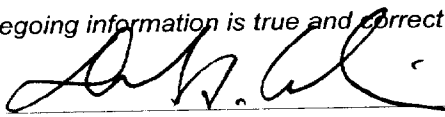
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8. Deposit account number: **04-1105**

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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)  **September 18, 2000**

Name of Person Signing Signature **3** Date

Total number of pages including cover sheet, attachments, and

ATTORNEY DOCKET NO.

49876(551)

ASSIGNMENT

Application No. _____

Filed May 26, 2000

Insert Name(s)
of Inventor(s)

➡ WHEREAS, Kazuyuki SUMI, Hirohisa WAKAI, Takashi NISHIMURA,
Yuji ICHIKAWA, Masafumi TAKAHASHI, Daisuke NAKANO,
Toru UEDA and Kazuhito NAGURA

Insert Title
of Invention

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in _____
➡ ELECTRONIC APPARATUS HAVING COMMUNICATION FUNCTION USING DETACHABLE
COMMUNICATION CABLE, CAPABLE OF REDUCING POWER CONSUMPTION AND
STABLE OPERATION

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 June 21, 2000; 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.

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 Dike, Bronstein, Robert & Cushman 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>June 21, 2000</u>	Name of Inventor <u>Kazuyuki Sumi</u> (signature) Kazuyuki SUMI
Date <u>June 21, 2000</u>	Name of Inventor <u>Hirohisa Wakai</u> (signature) Hirohisa WAKAI
Date <u>June 21, 2000</u>	Name of Inventor <u>Takashi Nishimura</u> (signature) Takashi NISHIMURA
Date <u>June 21, 2000</u>	Name of Inventor <u>Yuji Ichikawa</u> (signature) Yuji ICHIKAWA
Date <u>June 21, 2000</u>	Name of Inventor <u>Masafumi Takahashi</u> (signature) Masafumi TAKAHASHI
Date <u>June 21, 2000</u>	Name of Inventor <u>Daisuke Nakano</u> (signature) Daisuke NAKANO
Date <u>June 21, 2000</u>	Name of Inventor <u>Toru Ueda</u> (signature) Toru UEDA
Date <u>June 21, 2000</u>	Name of Inventor <u>Kazuhito Nagura</u> (signature) Kazuhito NAGURA
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)