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To the Director of the U.S. Patent and Trademark Office:
Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): [FAMILY NAME (ALL CAPS), Given Name] 7.18.03 MASUDA, Makoto ONO, Yasuhiro YAMANAKA, Hisashi ITO, Tetsushi</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>	<p>2. Name and address of receiving party(ies) Name: SHARP KABUSHIKI KAISHA Internal Address: Street Address: 22-22, Nagaike-cho Beno-ku City: Osaka State: ZIP: Country: JAPAN Postal Code: 545-8522</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
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3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other:

Execution Date: **July 2, 2003**

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: **July 2, 2003**

A. Patent Application No(s). **10621609**
NEW

B. Patent No.(s).

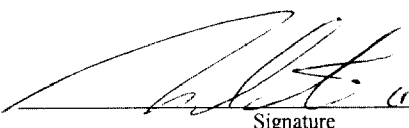
Additional numbers attached? YES NO

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP Street Address: P.O. BOX 747 City: FALLS CHURCH State: VA ZIP: 22040-0747 Country: USA</p>	<p>6. Total No. of applications/patents involved: ONE (1)</p> <p>7. Total fee (37 C.F.R. § 3.41): \$40.00</p> <p><input checked="" type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account, if no fee attached.</p> <p>8. Deposit account number: 02-2448</p> <p>(Attach triplicate copy of this page if paying by deposit account)</p>
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9. Statement and signature.

Terrell C. Birch, #19,382
Name of Person Signing/Reg. No.


Signature (reg. # **40,417**)

July 18, 2003
Date

Total number of pages including cover sheet, attachments, and document: **THREE (3)**

07/21/2003 HTECKLU1 00000028 10621609
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(Rev. 04/30/03)

BIRCH, STEWART, KOLASCH & BIRCH, LLP

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ASSIGNMENT

Application No. NEW

Filed July 18, 2003

**Insert Name(s)
of Inventor(s)**

*****(Given Name FAMILY NAME (ALL CAPS))*****

WHEREAS, Makoto MASUDA ; Yasuhiro ONO
Hisashi YAMANAKA , Tetsushi ITO ,
 _____ , _____
 _____ , _____
 _____ , _____
 _____ , _____
 _____ , _____

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

**Insert Title
of Invention**

DOCUMENT READING DEVICE

for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application).

**Insert Date
of Signing of
Application**

on July 2, 2003 ; and

**Insert Name
of Assignee**

WHEREAS, SHARP KABUSHIKI KAISHA

**Insert Address
of Assignee**

22-22, Nagaike-cho Abeno-ku Osaka 545-8522 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 in and to any Letters Patent(s) that may be granted therefor in the United States of America and

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IF APPROPRIATE

in any 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, conversions 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, conversion 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, conversion or reissue thereof or Letter 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) and 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 conversion 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 Birch, Stewart, Kolasch & Birch, LLP 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 July 2, 2003,

Name of Inventor Makoto Masuda
(signature) Makoto MASUDA

Date July 2, 2003,

Name of Inventor Yasuhiro Ono
(signature) Yasuhiro ONO

Date July 2, 2003,

Name of Inventor Hisashi Yamanaka
(signature) Hisashi YAMANAKA

Date July 2, 2003,

Name of Inventor Tetsushi Ito
(signature) Tetsushi ITO

Date _____,

Name of Inventor _____
(signature)

Date _____,

Name of Inventor _____
(signature)