

Practitioner's Docket No. 56821 [45672



101935632

PATENT

Jc973 U.S. PTO
10/027114
12/20/01

Box Patent Application
Assistant Commissioner for Patents
Washington, D.C. 20231

COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING
NEW PATENT APPLICATION (37 CFR 3.31)

IDENTIFICATION OF APPLICATION
(37 CFR 3.21 and 37 CFR 3.31(a)(4))

1. The [X] patent application [] provisional patent application filed herewith and, to which the attached assignment (document) refers, is identified as follows:

- a. Type of application mrd 12/20/01
- Application of patent (37 C.F.R. 1.53(b))
 - Continued prosecution (nonprovisional) application (37 C.F.R. 1.53(d))
 - Provisional application (37 C.F.R. 1.51(c))
 - International application (37 C.F.R. 1.431)

b. Date of execution: **December 17, 2001**

NOTE: Leave this blank if assignment is for a provisional application.

c. Name of each inventor:
1: Tomohiko YAMAMOTO

CERTIFICATION UNDER 37 C.F.R. 1.10*
(Express Mail label number is **mandatory**.)
(Express Mail certification is optional.)

I hereby certify that this "Cover Sheet for Assignment (Document) Accompanying New Patent Application" and the documents referred to as attached therein are being deposited with the United States Postal Service on this date 12/20, 2001, in an envelope as "Express Mail Post Office to Addressee," mailing Label Number EL931635927US, addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

Fatima H. DeArruda
(type or print name of person mailing paper)

Signature of person mailing paper

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

***WARNING:** Each paper or fee filed by "Express Mail" **must** have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. 1.10(b).
"Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

12/28/2001 MABDI1 00000057 10027114
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PATENT
REEL: 012413 FRAME: 0269

- 2: Keiichi TANAKA
- 3: Hideki ICHIOKA
- 4: Naoto INOUE
- 5: Koji FUJIWARA

d. Title of invention: ELECTRONIC DEVICE AND METHOD FOR DRIVING THE SAME

NOTE: 37 C.F.R. § 3.21 states: "If an assignment of a patent application filed under § 1.53(b) is executed concurrently with, or subsequent to, the execution of the patent application, but before the patent application is filed, it must identify the patent application by its date of execution, name of each inventor, and title of the invention so that there can be no mistake as to the patent application intended. If an assignment of a provisional application under 1.53(c) is executed before the provisional application is filed, it must identify the provisional application by name of each inventor and title of the invention so that there can be no mistake as to the provisional application intended."

NAME OF PARTY(IES) CONVEYING INTEREST (37 CFR 3.31(a)(1))

2. The party(ies) conveying this interest is (are):
- Name 1: Tomohiko YAMAMOTO
 - Name 2: Keiichi TANAKA
 - Name 3: Hideki ICHIOKA
 - Name 4: Naoto INOUE
 - Name 5: Koji FUJIWARA

**NAME AND ADDRESS OF PARTY(IES) RECEIVING INTEREST
(37 CFR 3.31(a)(2))**

3. The rights are being conveyed to:
- Name: Sharp Kabushiki Kaisha
 - Address: 22-22, Nagaike-cho, Abeno-ku
Osaka, 545-8522, JAPAN

**DESCRIPTION OF INTEREST CONVEYED OR TRANSACTION RECORDED
(37 CFR 3.31 (a)(3))**

4. The accompanying document intends to accomplish:
- an assignment
 - a security agreement.
 - a license.
 - a merger.
 - a change of name.
 - a change of address.
 - other.

(Cover Sheet for Assignment Accompanying New Patent Application—page 2 of 4)

**NAME AND ADDRESS OF PARTY TO WHOM CORRESPONDENCE
SHOULD BE MAILED (37 CFR 3.31(a)(5))**

5. Please address correspondence to:
Name: David G. Conlin (Reg. No. 27,026)
Address: Edwards & Angell LLP
Dike Bronstein Roberts & Cushman
Intellectual Property Practice Group
PO BOX 9169
Boston, MA 02209
Telephone No.: (617) 439-4444

DATE ASSIGNMENT (DOCUMENT) EXECUTED (37 CFR 3.31(a)(7))

6. The attached assignment (document) was executed on December 17, 2001.

LANGUAGE OF ASSIGNMENT (DOCUMENT) TO BE RECORDED

NOTE: "The Office will accept and record non-English language documents only if accompanied by an English translation signed by the individual making the translation." 37 CFR 3.26.

7. The attached document:
 is in the English language.
 is not in the English language. An English translation signed by the individual making the translation and statement as to its accuracy is attached.

ORIGINAL DOCUMENT OR TRUE COPY SUBMITTED

NOTE: "Either the original document or a true copy of the original document may be submitted for recording. Only one side of each page shall be used. The paper used should be flexible, strong, white, non-shiny, durable, and preferably no larger than 21.6 x 33.1 cm. (8½ x 14 inches) with a 2.5 cm. (one-inch) margin on all sides." 37 CFR 3.24.

8. Submitted herewith is:
 the original document.
 a true copy of the original document.

NOTE: "If the original [assignment] document is two-sided or the wrong size, the practitioner can comply with the requirement [set out in 37 C.F.R. § 3.24] by providing a true copy of the original document using only one side of each page on the correct size paper." Notice of June 24, 1992, 1140 O.G. 63-76, at 67.

(Cover Sheet for Assignment Accompanying New Patent Application—page 3 of 55)

**PATENT
REEL: 012413 FRAME: 0271**

**NUMBER OF APPLICATIONS IDENTIFIED IN THIS COVER SHEET
AND THE FEE**

NOTE: "All requests to record documents must be accompanied by the appropriate fee. Except as provided in paragraph (b) of this section, a fee is required for each application or patent against which the document is recorded as identified in the cover sheet. The recording fee is set in § 1.21(h). . . ." 37 CFR 3.41.

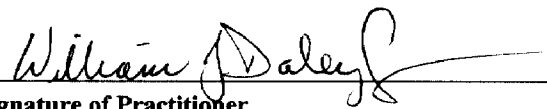
9. A. This cover sheet identifies only one application.
B. The fee for recordal (37 CFR 1.21(h)) is \$40.00.
[X] Attached is a check for \$40.00.
[] Please charge Account \$40.00.
A duplicate of this cover sheet is attached.

10027114

**STATEMENT (37 CFR 3.31(a)(9))
AND SIGNATURE (37 CFR 3.31(a)(10))**

10. 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.

Date: December 20, 2001


Signature of Practitioner
William J. Daley, Jr. (Reg. No. 35,487)
EDWARDS & ANGELL, LLP
DIKE, BRONSTEIN, ROBERTS & CUSHMAN
Intellectual Property Practice Group
PO BOX 9169
Boston, MA 02209

Customer No.: 21,874

TOTAL NUMBER OF PAGES BEING SUBMITTED

11. The total number of pages being submitted, **including cover sheet, attachment(s), and document(s)** are:

7
Total number of pages submitted

(Cover Sheet for Assignment Accompanying New Patent Application—page 4 of 4)

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ASSIGNMENT

WHEREAS, the following inventor(s):

Tomohiko YAMAMOTO, Keiichi TANAKA, Hideki ICHIOKA, Naoto INOUE, Koji FUJIWARA,
(Names of Inventors)(hereinafter designated as the undersigned) has (have) invented certain new and useful
improvements in ELECTRONIC DEVICE AND METHOD FOR DRIVING THE SAME,

(Title of Invention)

for which application for Letters Patent of the United States

 is being filed herewith has been filed on _____, Serial No. _____;

and

WHEREAS, Sharp Kabushiki Kaisha, a Japanese
(Name of Assignee) (State of Incorp.)Corporation having its principal place of business at 22-22, Nagaike-cho, Abeno-ku,
Osaka-shi, Osaka 545-8522, Japan

(Assignee's City)

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,

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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 Edwards & Angell, 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 December
17, 2001

Signature of Inventor: Tomohiko Yamamoto

Name: Tomohiko YAMAMOTO

December
17, 2001

Date _____

Signature of Inventor: Keiichi Tanaka

Name: Keiichi TANAKA

December
17, 2001

Date _____

Signature of Inventor: Hideki Ichioka

Name: Hideki ICHIOKA

December
17, 2001

Date _____

Signature of Inventor: Naoto Inoue

Name: Naoto INOUE

December
17, 2001

Date _____

Signature of Inventor: Koji Fujiwara

Name: Koji FUJIWARA

Date _____

Signature of Inventor: _____

Name: _____