



101714290
RECORDATION FORM COVER SHEET

11002 U.S. PTO
09/04/99 96
08/08/01

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

1. Name of conveying party(ies): SHIMAMOTO, Hidemitsu <i>05/08/01</i> Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	2. Name and address of receiving party(ies) Name: MITSUBISHI DENKI KABUSHIKI KAISHA Internal Address: Street Address: 2-3, Marunouchi 2-chome, Chiyoda-ku City: TOKYO State: ZIP: Country: JAPAN Postal Code: 100-8310 Additional name(s) & address(es) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: March 23, 2001	

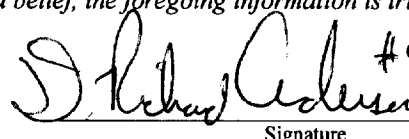
4. Application number(s) or patent number(s):
 If this document is being filed together with a new application, the execution date of the application is:
March 23, 2001

A. Patent Application No(s). NEW <i>09/849996</i>	B. Patent No.(s). Additional numbers attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
--	---

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

DO NOT USE THIS SPACE

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.

<i>for</i> Michael K. Mutter, #29,680 Name of Person Signing/Reg. No.	 #40,439 Signature	May 8, 2001 Date
---	---	----------------------------

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

MKM/tf

(05/09/2001 RHARIS1 00000012 09849996
02 FD:581 40.00 GP)

ATTORNEY DOCKET NO.
2257-0183P

ASSIGNMENT

Application No. NEW

Filed 5/8/01

WHEREAS, Hidemitsu SHIMAMOTO of

Insert Name (s)
of Inventor (s)

c/o MITSUBISHI DENKI KABUSHIKI KAISHA, 2-3, Marunouchi 2-chome,
Chiyoda-ku, TOKYO 100-8310 JAPAN

Insert Title
of Invention

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in
UPGRADING DEVICE AND METHOD OF UPGRADING

Insert Date
of Signing of
Application

for which an application for Letters Patent of the United States of America has been executed by the
undersigned on March 23, 2001; and

Insert Name
of Assignee

WHEREAS, MITSUBISHI DENKI KABUSHIKI KAISHA

Insert Address
of Assignee

of 2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 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

CHECK
ONE BOX

- (1) United States of American only; or
- (2) United States of American and 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 whereof is hereby acknowledged, and other good and valuable consideration, 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:

1. 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, if box (1) above is designated;
America, its territories, dependencies and possessions, if box (1) above is designated;

or

2. the United States of America, its territories, dependencies and possessions and in any and all
foreign countries 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 in any and
all foreign countries, if box (2) above is designated;

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 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/or any and all foreign countries to issue any and all Letters Patents 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 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 and 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: March 23, 2001, Name of Inventor Hidemitsu SHIMAMOTO *Hidemitsu Shimamoto* (Signature) (SEAL)

Date: _____, Name of Inventor _____ (Signature) (SEAL)

Date: _____, Name of Inventor _____ (Signature) (SEAL)

Date: _____, Name of Inventor _____ (Signature) (SEAL)

Date: _____, Name of Inventor _____ (Signature) (SEAL)

The executed by the Inventor(s) of this assignment may be witnessed by at least two other person who sign here.

Witness _____

Witness _____