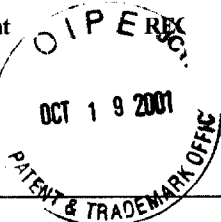


10-24-2001

Director of the U.S. Patent and Trademark Office  
Box Assignments  
Washington, D.C. 20231



101883482

DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Attorney Docket No. 109950

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

1. A. Name of conveying parties:  
Kouichi ITO  
Takashi ARAI  
Hideo KAMO

B. Additional name(s) of conveying party(ies) attached?  
 Yes  No

10-19-01

2. A. Name and address of receiving party:  
KYOSAN DENKI CO., LTD.  
OAZA OKAZATO 11-3, SOWA-MACHI,  
SASHIMA-GUN, IBARAKI-PREF., 306  
JAPAN

3. A. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

B. Execution Date: August 6, 2001

B. Additional name(s) & address(es) attached?  
 Yes  No

4. A. If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

B. Patent Application No.(s) 09/906,687

C. Patent No.(s) \_\_\_\_\_

Additional numbers attached?  Yes  No

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

Name: James A. Oliff

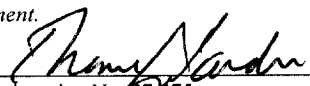
Address: **OLIFF & BERRIDGE, PLC**  
**P.O. Box 19928**  
**Alexandria, VA 22320**

6. Total number of applications and patents involved: 1

7. A. Total fee (37 CFR 3.41).....\$ 40.00  
B. Enclosed (Check No. 124030)

8. Credit any overpayment or charge any underpayment to deposit account number 15-0461.

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.*

  
James A. Oliff, Registration No. 27,075  
Thomas J. Pardini, Registration No. 30,411

Date: October 19, 2001

Total number of pages including cover sheet, attachments, and document: 2

10/24/2001 LMUELLER 00000058 09906687

01 FC:541 40.00 DP

**PATENT**  
**REEL: 12265 FRAME: 0676**

ASSIGNMENT

(1-8) Insert Name(s) of Inventor(s) (1) Kouichi Ito (5) (2) Takashi Arai (6) (3) Hideo Kano (7) (4) (8)

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set over to

(9) Insert Name of Assignee (9) KYOSAN DENKI Co., LTD. (10) Insert Address of Assignee (10) Oaza Okazato 11-3, Sowa-machi, Sashima-gun, Ibaraki-pref., 306 Japan

(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, substitute, and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

(11) Insert Identification such as Title, Case Number, or Foreign Application Number (11) FILTER (Attorney Docket No. 109950)

for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or

(12) Insert Date of Signing of Application (12) on August 6, 2001

(13) Alternative Identification for filed applications (13) U.S. application Serial Number 09/906,687 filed July 18, 2001

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.
2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.
3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.
5) Each undersigned authorizes and requests the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, assigns and legal representatives.
6) Each undersigned hereby grants the firm of OLIFF & BERRIDGE, PLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date August 6, 2001 Inventor Signature Kouichi Ito (SEAL)
Date August 6, 2001 Inventor Signature Takashi Arai (SEAL)
Date August 6, 2001 Inventor Signature Hideo Kano (SEAL)
Date Inventor Signature (SEAL)
Date Inventor Signature (SEAL)
Date Inventor Signature (SEAL)
Date Inventor Signature (SEAL)
Date Inventor Signature (SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date August 6, 2001 Witness Yusuke Uno
Date Witness