

09-21-1998



FORM PTO-1596
1-31-92

ET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Docket No.: 49657-133

100834126

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

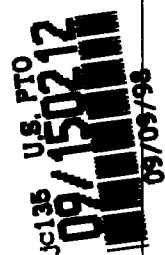
1. Name of Conveying Parties:
Masayoshi TARUTANI, Tsuyoshi HORIKAWA, Takaaki
KAWAHARA, and Mikio YAMAMUKA

Additional name(s) of conveying party(ies) attached? Yes

2. Name and address of receiving party:
Name: Mitsubishi Denki Kabushiki Kaisha

Address: 2-3, Marunouchi 2-chome
Chiyoda-ku
Tokyo 100-8310, JAPAN

Additional name(s) & address(es) attached? Yes



3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: July 2, 1998

4. Application number(s) or patent number(s):
If the document is being filed together with a new application, the execution date of the application is: July 2, 1998
A. Patent Application No(s).
B. Patent No(s).

Additional numbers attached? Yes

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: MCDERMOTT, WILL & EMERY
Internal Address:

Street Address: 99 Canal Center Plaza, Suite 300

City: Alexandria State: VA Zip: 22314

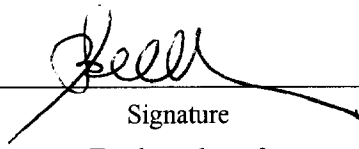
6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$40.00
 Enclosed
 Authorized to be charged to deposit account

8. Deposit account number:
500417

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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.

Stephen A. Becker, 26,527

September 9, 1998

Name and Registration No. of Person Signing Signature Date
Total number of pages comprising cover sheet: 1

CMB No. 0851-0011 (exp. 4/94)

09/21/1998 TTON11 0000044 500417 09150212

01 FC:581 40.00 CH

PATENT
REEL: 9457 FRAME: 0111

Docket No.:

ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

- (1) Masayoshi TARUTANI (4) Mikio YAMAMUKA (7) _____
- (2) Tsuyoshi HORIKAWA (5) _____ (8) _____
- (3) Takaaki KAWAHARA (6) _____ (9) _____

who have made a certain new and useful invention, hereby sell, assign and transfer unto

Mitsubishi Denki Kabushiki Kaisha of
2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

CVD APPARATUS FOR AND METHOD OF FORMING THIN FILM
HAVING HIGH DIELECTRIC CONSTANT

(a) for which an application for United States Letters Patent was filed on _____, and identified by United States Serial No. _____; or

(b) for which an application for United States Letters Patent was executed on July 2, 1998

and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE:

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the dates indicated aside our signatures:

INVENTORS

DATE SIGNED

- 1) Masayoshi Tarutani July 2, 1998
Name: Masayoshi TARUTANI
- 2) Tsuyoshi Horikawa July 2, 1998
Name: Tsuyoshi HORIKAWA
- 3) Takaaki Kawahara July 2, 1998
Name: Takaaki KAWAHARA
- 4) Mikio Yamamuka July 2, 1998
Name: Mikio YAMAMUKA
- 5) _____
Name: _____
- 6) _____
Name: _____
- 7) _____
Name: _____
- 8) _____
Name: _____
- 9) _____
Name: _____

PATENT