

A/D 581.40

Docket No.: **09/806412**  
L9289.01125

05-07-2001

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532 Rec'd. 30 MAR 2001

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Director of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): 3/30/01  
**Hiroaki SUDO**

Additional names(s) of conveying party(ies)  Yes  No

2. Name and address of receiving party(ies):

Name: Matsushita Electric Industrial Co., Ltd.

Internal Address: 1006 Oaza Kadoma  
Kadoma-shi, Osaka 571-8501, JAPAN

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

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

3. Nature of conveyance:

Assignment  Merger

Security Agreement  Change of Name

Other \_\_\_\_\_

Execution Date: February 19, 2001

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: February 19, 2001

A. Patent Application No.(s) \_\_\_\_\_ B. Patent No.(s) \_\_\_\_\_

04/03/2001 UEDWUJJE 00000096 09806412  
 03 FC:581 40.00 DP ) 09/806412

Additional numbers attached?  Yes  No

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

Name: James E. Ledbetter

Internal Address: L9289.01125

Street Address: Stevens, Davis, Miller & Mosher, LLP  
1615 L Street, NW, Suite 850

City: Washington State: DC ZIP: 20036

6. Total number of applications and patents involved: **1**

7. Total fee (37 CFR 3.41):.....\$ 40.00

Enclosed - Any excess or insufficiency should be credited or debited to deposit account

Authorized to be charged to deposit account

8. Deposit account number: 19-4375

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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.*

James E. Ledbetter, Reg. No. 28,732 March 30, 2001  
 Name of Person Signing Signature Date

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

**USA  
ASSIGNMENT OF PATENT APPLICATION**

- (1) Hiroaki SUDO
- (2) \_\_\_\_\_
- (3) \_\_\_\_\_
- (4) \_\_\_\_\_
- (5) \_\_\_\_\_

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

- (6) MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.
- (6a) of 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 JAPAN
- (7) \_\_\_\_\_
- (7a) of \_\_\_\_\_

(hereinafter designated as the Assignee) the entire rights, title and interest for the United States, its territories, dependencies and possessions, and for the country of

- (8) \_\_\_\_\_ in the invention, and all applications for patent and any Letters Patent which may be granted therefor, known as

- (9) DFDM COMMUNICATION APPARATUS  
\_\_\_\_\_ (Case No. \_\_\_\_\_)

for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed

- (10) on \_\_\_\_\_ or has already filed
- (11) U.S. appln. Serial No. \_\_\_\_\_, filed on \_\_\_\_\_
- (12) The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

- 1) The undersigned agree(s) to execute all papers necessary in connection with the application and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.
- 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining such evidence and going forward with such interference.
- 3) The undersigned agree(s) 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) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.
- 5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) 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.
- 6) The undersigned hereby grant(s) the firm of STEVENS, DAVIS, MILLER & MOSHER, L.L.P. the power to insert on this assignment any further identification which may be necessary or desirable to comply with the rules of the United States Patent Office for recordation of this document.

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

- Date February 19, 2001 Signature of Inventor (1) Hiroaki Sudo \_\_\_\_\_ (Seal)
- Date \_\_\_\_\_ Signature of Inventor (2) \_\_\_\_\_ (Seal)
- Date \_\_\_\_\_ Signature of Inventor (3) \_\_\_\_\_ (Seal)
- Date \_\_\_\_\_ Signature of Inventor (4) \_\_\_\_\_ (Seal)
- Date \_\_\_\_\_ Signature of Inventor (5) \_\_\_\_\_ (Seal)

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

- Date \_\_\_\_\_ Signature of Witness \_\_\_\_\_ (Seal)
- Date \_\_\_\_\_ Signature of Witness \_\_\_\_\_ (Seal)