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

20711-11-10-98

1. Name of conveying party(ies):  
(1) Hee-Yong Kim (2) Edwin Robert Meyer (3) Saiprasad Nainpally (4) Larry Phillips

2. Name and address of receiving party(ies):  
Name: Matsushita Electric Industrial Co., Ltd.  
Internal Address: 1006 Oaza  
Street Address: Kadoma  
City: Osaka 571 Country: Japan  
Additional name(s) & address(es) attached?  YES  NO

Additional name(s) of conveying party(ies) attached?  YES  NO

3. Nature of Conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Correction of Assignment Recordation  
(previously recorded at Reel \_\_\_\_\_, Frame \_\_\_\_\_).  
 Other

Execution Date: (1) 12/4/98 (2) 12/4/98 (3) 12/7/98  
(4) 12/4/98

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: \_\_\_\_\_  
A. Patent Application Number(s) 09/169,297 B. Patent Number(s) \_\_\_\_\_

Additional number(s) attached?  YES  NO

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: Kenneth N. Nigon  
  
Internal Address: Ratner & Prestia  
  
Street Address: Suite 301, One Westlakes, Berwyn,  
P.O. Box 980  
City: Valley Forge State: PA ZIP: 19482-0980

6. Total number of applications and patents involved: 1  
  
40E

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

8. Deposit account number: 18-0350  
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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.*

Kenneth N. Nigon [Signature] Dec 30, 1998  
Name of Person Signing Signature Date  
31:49  
Registration. No.

Total number of pages including cover sheet, attachments, and document: 4

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01/07/1999 INGVYEN 00000089 09169297  
Q1 FC:501 40.00 OP

MATP-490

ASSIGNMENT

WHEREAS, I/we, Hee-Yong Kim of 3 Saylor Court, Plainsboro, NJ 08536; Edwin Robert Meyer of 1460 Neshaminy Drive, Bensalem, PA 19020; Saiprasad Naimpally 781 Atkinson Lane, Langhorne, PA 19047 and Larry Phillips of 5 Highgate Court, Cherry Hill, NJ 08003 (hereinafter referred to as "**ASSIGNOR**") have made an invention entitled UPSAMPLING FILTER FOR A DOWNCONVERSION SYSTEM, Serial Number 09/169,297 filed on October 9, 1998 the **ASSIGNOR** executed an application for United States Letters Patent:

WHEREAS, the **ASSIGNEE**, **Matsushita Electric Industrial Co., Ltd. 1006 Oaza, Kadoma, 571 JAPAN** a corporation organized and existing under and by virtue of the laws of the Country of Japan, is desirous of acquiring the entire interest in and to said invention and the Letters Patent to be obtained therefor;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and of other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned, intending to be legally bound, does hereby sell, assign and transfer to the **ASSIGNEE** the **ASSIGNOR'S** entire right, title and interest, for the United States of America, its territories and possessions, and for all foreign countries, in said invention, including said patent application, all divisions and continuations thereof, all rights to claim priority based thereon, all rights to file foreign applications on said invention, and all letters patent and reissues thereof, issuing for said invention in the United States of America and in any and all foreign countries.

It is agreed that **ASSIGNOR** shall be legally bound, upon request and at the expense of the **ASSIGNEE** or its successors or assigns or a legal representative thereof, to supply all information and evidence of which the undersigned has knowledge or possession, relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments and do such other acts as may be necessary and proper to patent the invention in the United States of America and foreign countries in the name of the assignee and to execute all instruments proper to carry out the intent of this instrument.

**ASSIGNOR** hereby warrants 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, this Assignment is executed on the day indicated below.

ASSIGNOR #1:

Typed Name: Hee-Yong Kim

Hee-Yong Kim  
Signature

Date: Dec. 4, 1998

Witness as to ASSIGNOR #1: (Optional) \_\_\_\_\_

ASSIGNOR #2

Typed Name: Edwin Robert Meyer

Edwin Robert Meyer  
Signature

Date: Dec. 4, 1998

Witness as to ASSIGNOR #2: (Optional) \_\_\_\_\_

ASSIGNOR #3

Typed Name: Saiprasad Naimpally

Saiprasad Naimpally  
Signature

Date: 12/7/98

Witness as to ASSIGNOR #3: (Optional) \_\_\_\_\_

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ASSIGNOR #4:

Typed Name: Larry Phillips

*Larry Phillips*

Signature

Date:

*12/4/98*

Witness as to ASSIGNOR #4: (Optional)