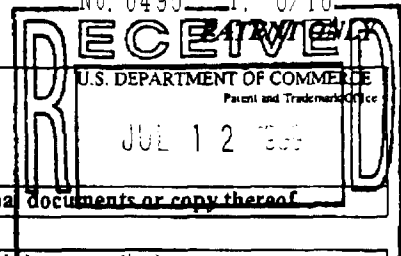


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3 SHEET



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1. Name of conveying party(ies):
1) Yoichiro Miki 6) Hiroshi Miyaguchi
2) Masahiro Tani 7) Yuji Yaguchi
3) Kazuki Ninomiya 8) Tsuyoshi Akiyama
4) Naoya Tokunaga 9) Kenya Adachi
5) Kenia Sokawa

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 9697, Frame 0562.
 Other

Execution Date: November 5, 1998

2. Name and address of receiving party(ies).
Name: Matsushita Electric Industrial Co., Ltd.
Internal Address:
Street Address: 1006, Oaza Kadoma, Kadoma-shi
City: Osaka State: JAPAN ZIP: 571-8501

And

Name: Texas Instruments Incorporated
Internal Address: 7839 Churchill Way
Street Address: Mail Station 3999
City: Dallas State: Texas ZIP: 75251

Additional name(s) & address(es) attached? YES NO

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4. Application number(s) or patent number(s):
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Name: Andrew L. Ney

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

7. Total fee (37 CFR 3.41): \$ 40.00
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 2) Masahiro Tan 7) Yuji Yaguchi
 3) Kazuki Ninomiya 8) Tsuyoshi Akiyama
 4) Naoya Tokunaga 9) Kenya Adachi
 5) Kenra Sokawa

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

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Additional name(s) & address(es) attached? YES NO

Execution Date: November 5, 1998

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A. Patent Application Number(s) 09/165,785 B. Patent Number(s) _____

Additional number(s) attached? YES NO

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ASSIGNMENT

WHEREAS, The ASSIGNOR, comprising the following named inventor(s):

1. Yoichiro MIKI; 2-28, Furuno-cho,
Kawachinagano-shi, Osaka Japan
2. Masahiro TANI; 21-1-201, Horinouchi, Kaide-cho,
Muko-shi, Kyoto Japan
3. Kazuki NINOMIYA; 19-8-201, Miyano-cho,
Kadoma-shi, Osaka Japan
4. Naoya TOKUNAGA; 3-9-5, Terakatahondori,
Moriguchi-shi, Osaka Japan
5. Kenta SOKAWA; 60-1-617, Yamanouekitamachi,
Hirakata-shi, Osaka Japan
6. Hiroshi MIYAGUCHI; 4-29-11, Matsubara,
Setagaya-ku, Tokyo Japan
7. Yuji YAGUCHI; 618, Mitsugi, Kasumigaoramachi,
Niihari-gun, Ibaragi-ken Japan
8. Tsuyoshi AKIYAMA; 28-34, Kasumigaokamachi,
Tsuchiura-shi, Ibaragi-ken Japan
9. Kenya ADACHI; 3-9-17-702, Sakuramachi,
Tsuchiura-shi, Ibaragi-ken Japan

COPY

has invented and owns a certain invention entitled:

MEMORY INTERFACE DEVICE
AND
MEMORY ADDRESS GENERATION DEVICE

for which application for Letters Patent of the United States was filed on October 2, 1998, and assigned Serial No. 09/165,785, and

whereas, the ASSIGNEE:

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.
1006, Oaza Kadoma, Kadoma-shi,
Osaka 571-8501 Japan

TEXAS INSTRUMENTS INCORPORATED
7839 Churchill Way
Mail Station 3999
Dallas, TX 75251 USA

is desirous of acquiring the entire interest in, to and under said invention and the United States Letters Patent to be obtained therefor;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum corresponding to One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to said invention and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.

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ASSIGNOR hereby covenants that no assignment sale agreement charge or other encumbrance has been or will be entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

IN WITNESS WHEREOF, the parties have hereunto set their hands and seal

this 5th day of November, 1998.

COPY

1. Yoichiro Miki
(Yoichiro MIKI)

2. Masahiro Tani
(Masahiro TANI)

3. Kazuki Ninomiya
(Kazuki NINOMIYA)

4. Naoya TOKUNAGA
(Naoya TOKUNAGA)

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5. Kenta Sokawa
(Kenta SOKAWA)

6. Hiroshi Miyaguchi
(Hiroshi MIYAGUCHI)

7. Yuji Yaguchi
(Yuji YAGUCHI)

8. Tsuyoshi Akiyama
(Tsuyoshi AKIYAMA)

9. Kenya Adachi
(Kenya ADACHI)