

9/9/03

09-16-2003



Attorney Docket No. 031053

102551306

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Commissioner for Patents: Please record the attached original documents or copy thereof.

Submission type: X New

Conveyance type: X Assignment

Conveying Party(ies): (Last, First, Middle Initial) Execution Date

First party Name: HIWATA, Akira August 8, 2003

Second party Name: IIDA, Noboru August 8, 2003

Third party Name:

Additional name(s) of conveying party(ies) attached? Yes \_\_\_ No X

Receiving Party (ies):

First party Name: MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.  
Address: 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501, Japan

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

Domestic Representative Name and Address (Enter for the first Receiving Party only)

ARMSTRONG, WESTERMAN & HATTORI, LLP  
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Washington, D.C. 20006  
Customer No. 23850

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22387 U.S. PTO  
10/657182  
09/09/03

09/10/2003 LMDNDIM1 00000066 10657182

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Correspondent Name and Address

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Pages Enter the total number of pages of the attached conveyance document: 1  
(including any attachments, but not counting cover sheets)

Application Number(s) or Patent Number(s) Additional numbers attached? Yes  No

A. Patent Application No.(s)

B. Patent No.(s)

## 10 657182

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If this document is being filed together with a new application, enter the date the application was signed by the first named executing inventor: August 8, 2003  
(Do not recite both application and patent numbers.)

Patent Cooperation Treaty (PCT)

PCT \_\_\_\_\_

Enter PCT application number only if

PCT \_\_\_\_\_

a U.S. Application Number has not been assigned

PCT \_\_\_\_\_

Number of Properties Enter the total number of properties involved: 1

Fee Amount Fee Amount for Properties Listed (37 CFR 3.41). . . . . \$40.00

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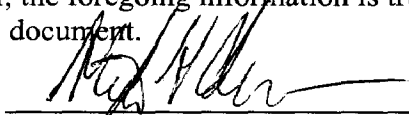
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Statement and signature

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 G. Adrian

Name of Person Signing



Signature

September 9, 2003

Date

32,878

Registration No.

# U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by

(Insert ASSIGNEE's Name(s) Address(es))

**Matsushita Electric Industrial Co., Ltd. of 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 Japan**

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

(Title of Invention)

**EXPANDER**

(\*If the assignment is being filed after the filing of the application, this section must be completed)

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

filed on \_\_\_\_\_, Serial No. \_\_\_\_\_.

(Armstrong, Westerman & Hattori, LLP is hereby authorized to insert the series code, serial number and/or filing date hereon, when known)

and all Letters Patent of the United States to be obtained therefore on said application or any continuation, divisional, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with the application and any continuation, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

<u>Akira Hiwata</u> (Signature)	<u>Akira HIWATA</u> (Type Name)	<u>August 8, 2003</u> (Date)
<u>Noboru Iida</u> (Signature)	<u>Noboru IIDA</u> (Type Name)	<u>August 8, 2003</u> (Date)
_____ (Signature)	_____ (Type Name)	_____ (Date)
_____ (Signature)	_____ (Type Name)	_____ (Date)
_____ (Signature)	_____ (Type Name)	_____ (Date)
_____ (Signature)	_____ (Type Name)	_____ (Date)

NO LEGALIZATION REQUIRED