

03-21-2002

Docket No.: NAK1-BQ<sup>81</sup> 10/019498



102026615

FORM PTO-1595 (Modified)  
(Rev. 03-01)  
OMB No. 0651-0027 (exp. 5/31/2002)  
POBA/REV03

ET U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

JG13 Rec'd PCT/PTO 20 DEC 2001

Tab settings

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

1. Name of conveying party(ies): 12-20-01  
Hiroyuki MORISHITA      Ryuji MATSUURA  
Kosuke YOSHIOKA        Toshiaki TSUJI  
Hideshi NISHIDA        Kozzo KIMURA  
Makoto HIRAI            Tokuzo KIYOHARA

2. Name and address of receiving party(ies):  
Name: Matsushita Electric Industrial Co., Ltd.  
Address: 1006 Oaza Kadoma  
Kadoma-shi

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

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

City: Osaka-fu                      State/Prov.:  
Country: Japan                      ZIP:

Execution Date: December 5, 2001

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

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

If this document is being filed together with a new application, the execution date of the application is: December 5, 2001

Patent Application No.              Filing date

B. Patent No.(s)

10,019,498

01/08/2002 UEDUVIJE 00000177 10019498  
02 FC:581                      40.00

Additional numbers attached?  Yes  No

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

Name: Joseph W. Price  
Registration No. 25,124  
Address: PRICE AND GESS  
2100 S.E. Main Street, Suite 250  
City: Irvine                      State/Prov.: CA  
Country: USA                      ZIP: 92614

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  
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8. Deposit account number:

16-2462

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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.

Joseph W. Price Reg. No. 25,124

12/20/01

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and

4

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

PATENT  
REEL: 012689 FRAME: 0142

# ASSIGNMENT

**WHEREAS**, we, Hiroyuki MORISHITA, Kosuke YOSHIOKA, Hideshi NISHIDA, Makoto HIRAI, Ryuji MATSUURA, Toshiaki TSUJI, Kozo KIMURA, and Tokuzo KIYOHARA citizens of Japan and residents of Tokyo Japan, respectively, have invented certain new and useful improvements in a PIXEL CALCULATING DEVICE

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for which we have executed application for Letters Patent of the United States, on even date herewith;

**WHEREAS**, MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., a corporation of Japan, having a principal place of business at 1006 Oaza Kadoma, Kadoma-shi, Osaka-fu, Japan, is desirous of obtaining the entire right, title and interest in, to and under the said improvements and the said application,

**NOW, THEREFORE**, in consideration of the sum of One Hundred Yen (100¥) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, Hiroyuki MORISHITA, Kosuke YOSHIOKA, Hideshi NISHIDA, Makoto HIRAI, Ryuji MATSUURA, Toshiaki TSUJI, Kozo KIMURA, and Tokuzo KIYOHARA, have sold, assigned, transferred and set over, unto said MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., its successors, legal representatives and assigns, the entire right, title and interest in, to and under said improvements, and said application and all divisions, renewals and continuations thereof, and all Letters Patents of the United States, which may be granted thereon and all reissues and extensions thereof, and all priority rights under the International Convention for the Protection of Industrial Property for every country of the Union, and all applications for Letters Patents which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States, and any official of any country or countries foreign to the

United States, whose duty it is to issue patents, on applications as aforesaid, to issue all Letters Patents for said improvements to said MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., its successors, legal representatives and assigns, in accordance with the terms of this instrument.

**AND WE HEREBY** covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

**AND WE HEREBY** further covenant and agree that we will communicate to said MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD., its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

**IN TESTIMONY WHEREOF**, I have hereunto set my hand this 5<sup>th</sup> day of  
December, 2001.

Hiroyuki Morishita  
Hiroyuki MORISHITA

**IN TESTIMONY WHEREOF**, I have hereunto set my hand this 5<sup>th</sup> day of  
December, 2001.

Kosuke Yoshioka  
Kosuke YOSHIOKA

**IN TESTIMONY WHEREOF**, I have hereunto set my hand this 5<sup>th</sup> day of  
December, 2001.

Hideshi Nishida  
Hideshi NISHIDA

IN TESTIMONY WHEREOF, I have hereunto set my hand this 5th day of

December, 2001.

Makoto Hirai

Makoto HIRAI

IN TESTIMONY WHEREOF, I have hereunto set my hand this 5th day of

December, 2001.

Ryuji Matsuura

Ryuji MATSUURA

IN TESTIMONY WHEREOF, I have hereunto set my hand this 5th day of

December, 2001.

Toshiaki Tsuji

Toshiaki TSUJI

IN TESTIMONY WHEREOF, I have hereunto set my hand this 5th day of

December, 2001.

Kozo Kimura

Kozo KIMURA

IN TESTIMONY WHEREOF, I have hereunto set my hand this 5th day of

December, 2001.

Tokuzo Kiyohara

Tokuzo KIYOHARA