

11-09-1998



Docket No.: 48733

10.29.98

FORM PTO-1595 (Modified) (Rev. 6-93) OMB No. 0651-0011 (exp. 4/94) Copyright 1996-97 LegalStar POBA/REV02

100872136

2 SHEET

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

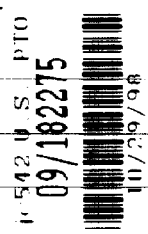
PATENTS ONLY

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): Masanori Toyoda Masakiyo Okuda Akihiko Iwasaki Takeshi Murakami Atsushi Narukawa Takashi Nishimachi Yoshiyuki Nakai Additional names(s) of conveying party(ies) [ ] Yes [X] No

2. Name and address of receiving party(ies): Name: Sharp Kabushiki Kaisha Address: 22-22 Nagaike-cho Abeno-ku Osaka 545-8522 Japan City: State/Prov.: Country: ZIP: Additional name(s) & address(es) [ ] Yes [X] No



3. Nature of conveyance: [X] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other Execution Date: September 8, 1998

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: September 8, 1998 Patent Application No. Filing date B. Patent No.(s) Additional numbers [ ] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: David G. Conlin Registration No. 27,026 Address: Dike, Bronstein, Roberts & Cushman, LLP 130 Water Street City: Boston State/Prov.: MA Country: U.S.A. ZIP: 02109

6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41): \$ 40.00 [X] Enclosed - Any excess or insufficiency should be credited or debited to deposit account [ ] Authorized to be charged to deposit account 8. Deposit account number: 04-1105

DO NOT USE THIS SPACE

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. David G. Conlin Signature Date: October 29, 1998 Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and

4

A S S I G N M E N T

We Masanori TOYODA  
Akihiko IWASAKI  
and Atsushi NARUKAWA  
for good and valuable consideration from SHARP KABUSHIKI KAISHA  
, a Japanese corporation,  
having its principal place of business in Osaka, Japan  
hereinafter called the Assignee, receipt of which is hereby acknowledged, do hereby  
sell, assign and transfer unto the Assignee, its successors and assigns, the entire  
right, title and interest in, to and under an application for Letters Patent of the  
United States Serial No. \_\_\_\_\_, filed on \_\_\_\_\_\* signed by us  
for Improvements in IMAGE PROCESSING DEVICE AND IMAGE PROCESSING METHOD

including all priority rights ensuing therefrom, and the inventions and any of them  
therein set forth and described, and any and all Letters Patent of the United States  
and of countries foreign thereto which may be granted thereon or therefor, together  
with the right to apply for such Letters Patent.

And for the above consideration we agree promptly upon request of the Assignee,  
its successors or assigns, to execute and deliver without further compensation any  
power of attorney, assignment, application, whether original, divisional, continuation  
or reissue, or other papers which may be necessary or desirable fully to secure to the  
Assignee, its successors and assigns, the inventions and any of them described in said  
application and all patent rights therein, in the United States and in any country  
foreign thereto.

The undersigned hereby grant(s) the law firm of Dike, Bronstein, Roberts &  
Cushman the power to insert on this Assignment any further identification  
which may be necessary or desirable in order to comply with the rules of the  
U.S. Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, I, Masanori TOYODA, hereunto set my  
hand and seal this 8th day of September, 1998 I, Akihiko  
IWASAKI, hereunto set my hand and seal this 8th day of September  
1998 and I, Atsushi NARUKAWA, hereunto set my hand and seal  
this 8th day of September, 1998.

Masanori Toyoda  
Akihiko Iwasaki  
Atsushi Narukawa

Commonwealth [State] of \_\_\_\_\_  
County of \_\_\_\_\_ ss.

Before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally appeared  
\_\_\_\_\_, who is to me personally known, and acknowledged  
the foregoing instrument of assignment to be [her] his free act and deed.

\_\_\_\_\_  
Notary Public

Commonwealth [State] of \_\_\_\_\_  
County of \_\_\_\_\_ ss.

Before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally appeared  
\_\_\_\_\_, who is to me personally known, and acknowledged  
the foregoing instrument of assignment to be [her] his free act and deed.

\_\_\_\_\_  
Notary Public

\*Where the application is assigned before it is filed,  
and hence has no Serial No., this shall be left blank.



A S S I G N M E N T

We Takashi NISHIMACHI

and \_\_\_\_\_  
for good and valuable consideration from SHARP KABUSHIKI KAISHA  
a Japanese corporation,  
having its principal place of business in Osaka, Japan  
hereinafter called the Assignee, receipt of which is hereby acknowledged, do hereby  
sell, assign and transfer unto the Assignee, its successors and assigns, the entire  
right, title and interest in, to and under an application for Letters Patent of the  
United States Serial No. \_\_\_\_\_, filed on \_\_\_\_\_ \* signed by us  
for Improvements in IMAGE PROCESSING DEVICE AND IMAGE PROCESSING METHOD

including all priority rights ensuing therefrom, and the inventions and any of them  
therein set forth and described, and any and all Letters Patent of the United States  
and of countries foreign thereto which may be granted thereon or therefor, together  
with the right to apply for such Letters Patent.

And for the above consideration we agree promptly upon request of the Assignee,  
its successors or assigns, to execute and deliver without further compensation any  
power of attorney, assignment, application, whether original, divisional, continuation  
or reissue, or other papers which may be necessary or desirable fully to secure to the  
Assignee, its successors and assigns, the inventions and any of them described in said  
application and all patent rights therein, in the United States and in any country  
foreign thereto.

The undersigned hereby grant(s) the law firm of Dike, Bronstein, Roberts &  
Cushman the power to insert on this Assignment any further identification  
which may be necessary or desirable in order to comply with the rules of the  
U.S. Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, I, Takashi NISHIMACHI, hereunto set my  
hand and seal this 8th day of September, 1998, I, \_\_\_\_\_  
\_\_\_\_\_, hereunto set my hand and seal this \_\_\_\_\_ day of \_\_\_\_\_  
19\_\_\_\_, and I, \_\_\_\_\_, hereunto set my hand and seal  
this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_.

Takashi Nishimachi

Commonwealth [State] of \_\_\_\_\_  
County of \_\_\_\_\_ ss.

Before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally appeared  
\_\_\_\_\_, who is to me personally known, and acknowledged  
the foregoing instrument of assignment to be [her] his free act and deed.

\_\_\_\_\_  
Notary Public

Commonwealth [State] of \_\_\_\_\_  
County of \_\_\_\_\_ ss.

Before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, personally appeared  
\_\_\_\_\_, who is to me personally known, and acknowledged  
the foregoing instrument of assignment to be [her] his free act and deed.

\_\_\_\_\_  
Notary Public

\*Where the application is assigned before it is filed,  
and hence has no Serial No., this shall be left blank.