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**Hiroyuki Sakuyama; Takao Inoue; Shin Aoki; Keiichi Ikebe; Taku Kodama; Takeshi Koyama; Ikuko Yamashiro; Takashi Maki; Akira Takahashi; Takanori Yano**

2. Name and address of receiving party(ies):  
Name: **Ricoh Company, Ltd.**

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

Internal Address:  
Street Address: **3-6, Nakamagome 1-chome, Ohta-ku**

3. Nature of Conveyance:  
 Assignment  Merger  
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City: **Tokyo** State: Zip: **143-8555**  
Country: **Japan**

Execution Date: 4/2/04; 4/5/04; 4/2/04; 4/6/04; 4/2/04;  
4/8/04; 4/9/04; 4/6/04; 4/5/04; 4/2/04

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

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 No.(s)  
10/816,068

B. Patent No.(s)

Additional numbers attached?  No  Yes

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

Name: **Blakely, Sokoloff, Taylor & Zafman LLP**  
Internal Address:  
Street Address: **12400 Wilshire Boulevard**  
**7th Floor**  
City: **Los Angeles** State: **CA** ZIP: **90025**

6. Total number of applications and patents involved: **1**

7. Total Fee (37 CFR 3.41).....\$ **40.00**  
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*To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.*

**Michael J. Mallie**  
Name of Person Signing

Signature

**7/31/04**  
Date

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Docket No. 6453P040

**PATENT**  
**REEL: 015574 FRAME: 0446**

**ASSIGNMENT**  
(For Execution After Filing Patent Application)

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, We, the undersigned, HIROYUKI SAKUYAMA, TAKAO INOUE, SHIN AOKI, KEIICHI IKEBE, TAKU KODAMA, TAKESHI KOYAMA, IKUKO YAMASHIRO, TAKASHI MAKI, AKIRA TAKAHASHI and TAKANORI YANO

hereby sell, assign, and transfer to

Ricoh Company, Ltd. a corporation of Japan, having a principal place of business at 3-6, Nakamagome 1-chome, Ohta-ku, Tokyo 143-8555, Japan, ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements that are disclosed in the application for the United States patent that was filed March 31, 2004, and assigned Application No. 10/816,068 and is entitled

IMAGE COMPRESSION METHOD CAPABLE OF REDUCING TILE BOUNDARY DISTORTION

and in and to said application and all divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions that have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said

Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: April 2, 2004,

Hiroyuki Sakuyama  
Name: HIROYUKI SAKUYAMA

Date: April 5<sup>th</sup> 2004,  
~~2004~~

Takao Inoue  
Name: TAKAO INOUE

Date: April 2, 2004,

Shin Aoki  
Name: SHIN AOKI

Date : April 6, 2004,

Keiichi Ikebe  
Name: KEIICHI IKEBE

Date: April 2, 2004,

Taku Kodama  
Name: TAKU KODAMA

Date: April 8, 2004,

Takeshi Koyama  
Name: TAKESHI KOYAMA

Date: April 9, 2004,

Ikuko Yamashiro  
Name: IKUKO YAMASHIRO

Date: April 6, 2004,

Takashi Maki  
Name: TAKASHI MAKI

Date: April 5, 2004,

Akira Takahashi  
Name: AKIRA TAKAHASHI

Date: April 2, 2004,

Takanori Yano  
Name: TAKANORI YANO

