



To the Honorable Commissioner

101959529

... attached original documents or copy thereof.

1. Name of conveying party(ies):  
Suk-beom Song  
*01/10/02*  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):  
Name: Samsung Electronics, Co., Ltd.  
Internal Address: \_\_\_\_\_

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_  
Execution Date: December 28, 2001

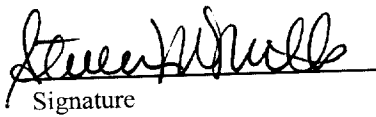
Street Address: 416, Maetan-dong, Paldaegu,  
Suwon-city, Kyungki-do, Republic of Korea  
City: \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_  
Additional name(s) & address attached?  Yes  No

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: December 28, 2001  
A. Patent Application No.(s) \_\_\_\_\_ B. Patent No.(s) \_\_\_\_\_  
Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: Steven M. Mills  
Internal Address: MILLS & ONELLO LLP  
Street Address: Eleven Beacon Street, Suite 605  
City: Boston State MA ZIP 02108

6. Total number of applications and registrations involved ..... 1  
7. Total fee (37 CFR 3.41)..... \$40.00  
 Enclosed  
 Authorized to be charged to deposit account  
8. Deposit Account Number: \_\_\_\_\_  
(Attach duplicate copy of this page if paying by deposit account)

**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.*  
01/24/2002 TDIABZ 00000084 10044123  
01 4C:581 40.00 OF  
Steven M. Mills, Reg. No. 36,610  
Name of Person Signing  Signature January 10, 2002 Date  
Total number of pages including cover sheet, attachments, and document 3

**ASSIGNMENT**

I, Suk-beom Song of 203-1003, Woncheon 2-danji Jukong Apt., 548, Woncheon-dong, Paldal-gu, Suwon-city, Kyungki-do, Republic of Korea, having invented improvements in **IMAGE PROCESSING APPARATUS AND METHOD FOR DISPLAYING PICTURE-IN-PICTURE WITH FRAME RATE CONVERSION**, described in an application for Letters Patent of the United States executed by me of even date herewith, for good and valuable consideration, receipt of which is hereby acknowledged from Samsung Electronics, Co., Ltd., a Korean corporation having a place of business at 416, Maetan-dong, Paldal-gu, Suwon-city, Kyungki-do, Republic of Korea (and hereinafter called the Assignee, which term shall include its successors and assigns), do hereby sell, assign and transfer unto the Assignee my entire right, title, and interest in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto, in and to and under said application (which term shall include hereinafter where the context so admits all divisional, continuing, reissue and other patent applications based thereon) and the inventions (which term shall include each and every such invention, or part thereof) therein described, and any and all patents and like rights of exclusion (including extensions thereof) of any country which may be granted on or for said inventions or on said application;

And for the same consideration I do also hereby sell, assign, and transfer unto the Assignee, all my rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, and all other treaties of like purpose in respect of said inventions and said application, and I do hereby authorize the Assignee to apply in my name or its own name or its designee for patents and like rights of exclusion on or for said inventions in all countries, claiming (if the Assignee so desires) the priority of the filing date of said application under the provisions of said Convention, Treaty or any such other Convention or Treaty;

And for the same consideration, I do hereby agree for myself and for my heirs, executors, and administrators, promptly upon request of the Assignee to execute and deliver without further compensation any power of attorney, assignment, original, divisional, continuing, reissue or other application or applications for patent or patents or like rights of exclusion of any country, or other lawful documents and any further assurances that may be deemed necessary or desirable by the Assignee, fully to secure to it said right, title, and interest as aforesaid in and to said inventions, applications, and said several patents and like rights of exclusion (including extensions thereof) or any of them, all, however, at the expense of the Assignee, its successors, or assigns;

And I do hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and the corresponding Official of each country foreign thereto to issue to the Assignee, any and all patents and like rights of exclusion which may be granted in any country upon said United States application on or for said inventions;

And I do hereby covenant for myself and my legal representatives and agree with the Assignee, that I have granted no right or license to make, use, or sell said inventions to anyone except the Assignee, that prior to the execution of this deed our right, title, and interest in and to said inventions has not been otherwise encumbered by me, and that I have not executed and will not execute any instruments in conflict herewith.

First or Sole Inventor:

Signature:

Song Suk Beom.  
Suk-beom Song

Date: 2001. 12. 28

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