
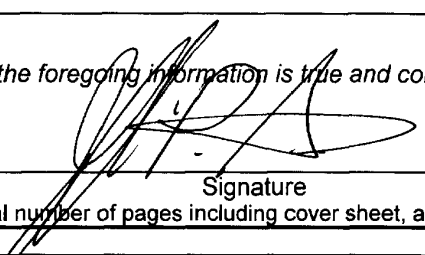


med 07-13-98

|  |  |   |  |
|--|--|---|--|
| <div>FORM PTO-1595 (Rev. 6-93)</div> <div><div>O I P E<br/>JUL 13 1998<br/>PATENT &amp; TRADEMARK OFFICE</div><div>RECORD</div><div>P/</div></div> <div>07-22-1998</div> <div><br/>100770157</div>  |  | U.S. DEPARTMENT OF COMMERCE<br>Patent and Trademark Office  |  |
| To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.  |  |   |  |
| <div>1. Name of conveying party(ies):<br/><b><u>Musa Jahanghir, Jack Chaney, Michael A. Kaufman</u></b></div> <div>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input type="checkbox"/> No</div>   |  | <div>2. Name and address of receiving party(ies):<br/>Name: <b><u>Samsung Electronics Co., Ltd.</u></b><br/>Address: <b><u>416, Maetan-Dong, Paldal-Gu,</u></b><br/><b><u>Suwon City, Kyungki-Do,</u></b><br/><b><u>Republic of Korea</u></b></div> <div>Additional name(s) &amp; address(es) attached? <input type="checkbox"/> Yes <input type="checkbox"/> No</div>            |  |
| <div>3. Nature of conveyance:<br/><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger<br/><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name<br/><input type="checkbox"/> Other</div> <div>Execution Date:</div>   |  |   |  |
| <div>4. Application number(s) or patent number(s): <u>09/001,880</u></div> <div>If this document is being filed together with a new application, the execution date of the application is:</div> <div>A. Patent Application No.(s)<br/><u>(09/001880)</u></div> <div>B. Patent No.(s)</div> <div>Additional numbers attached? <input type="checkbox"/> Yes <input type="checkbox"/> No</div>   |  |   |  |
| <div>5. Name and address of party to whom correspondence concerning document should be mailed:<br/>Name: <b><u>Jeffrey P. Aiello</u></b><br/>Internal Address:<br/><b><u>Samsung Information Systems America, Inc.</u></b><br/>Street Address: <b><u>99 West Tasman Drive</u></b><br/>City: <b><u>San Jose</u></b> State: <b><u>CA</u></b> ZIP: <b><u>95134</u></b></div>  |  | <div>6. Total number of applications and patents involved: <u>1</u></div> <div>7. Total fee (37 CFR 3.41) ..... <b><u>\$40.00</u></b><br/><input checked="" type="checkbox"/> Enclosed<br/><input type="checkbox"/> Authorized to be charged to deposit account</div> <div>8. Deposit account number:<br/>(Attach duplicate copy of this page if paying by deposit account)</div> |  |
| <div><u>(07/17/1998 MGORDON 00000046 09001880</u><br/><u>05 FC:581 40.00 OP</u></div>  |  | DO NOT USE THIS SPACE   |  |
| <div>9. Statement and signature.<br/><i>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.</i></div> <div>Jeffrey P. Aiello, Reg. No. 39,086</div> <div>Name of Person Signing, Reg. No.  Signature</div> <div>Date</div> <div>Total number of pages including cover sheet, attachments &amp; document: <u>5</u></div> |  |   |  |

DOCKET NO. 2810-050

DOCKET NO. 2810-050

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
ASSIGNMENT OF PATENT**

WHEREAS, MUSA JAHANGHIR, JACK CHANEY, MICHAEL A. KAUFMAN, each of which are United States citizens have invented certain new and useful improvements in METHOD AND APPARATUS FOR PROCESSING A HIGH DEFINITION IMAGE TO PROVIDE A RELATIVELY LOWER DEFINITION IMAGE USING BOTH DISCRETE COSINE TRANSFORMS AND WAVELET TRANSFORMS for which an application for a United States Patent is filed herewith and;

WHEREAS, Samsung Electronics Co., Ltd., a corporation of the Country of Korea, with its principle business address at 416, Maetan-Dong, Paldal-Gu, Suwon City, Kyungki-Do, Republic of Korea, is desirous of acquiring the entire right, title, and interest in and to our said invention and in and to the United States Letters Patent thereon, when granted, and in and to any and all improvements thereon;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:

BE IT KNOWN that for good and valuable consideration, the receipt of which thereof is hereby acknowledged, we, the said MUSA JAHANGHIR, JACK CHANEY, MICHAEL A. KAUFMAN, by these presents do sell, assign, and transfer unto said Samsung Electronics Co., Ltd., the entire right, title, and interest in and to any and all Letters Patent for the whole of the United States and each and every foreign country to be obtained therefor on said application or any continuation, division, renewal, substitute, or reissue thereof, and in and to any and all improvements thereon.

THE SAME TO BE HELD and enjoyed by Samsung Electronics Co., Ltd., its successors and assigns, for its own use, to the full end of the term for which the said Letters Patent may or shall be granted, as fully and entirely as the same might or could have been enjoyed by us has this Assignment and sale not been made.

AND WE HEREBY AUTHORIZE and request the Commissioner of Patents and Trademarks to issue said United States Letters Patent on our said invention, when granted, unto our said Assignee, Samsung Electronics Co., Ltd., a corporation, in accordance with this assignment.

Executed this \_\_\_\_\_ day of July, 1998, at Samsung Information Systems America, Inc., 99 West Tasman Drive, San Jose CA 95134

\*\*\*\*

DOCKET NO. 2810-050

Date 7-4-98Musa Jahanghir  
Musa JahanghirSTATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS:

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally appeared Musa Jahanghir, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

S E A L

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

My commission expires \_\_\_\_\_

Date \_\_\_\_\_

Jack Chaney

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ ) SS:

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally appeared Jack Chaney, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

S E A L

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

My commission expires \_\_\_\_\_

\_\_\_\_\_  
Date

\_\_\_\_\_  
Musa Jahanghir

STATE OF \_\_\_\_\_ )  
 ) SS:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally appeared Musa Jahanghir, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

S E A L

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

My commission expires \_\_\_\_\_

July 6, 1998  
Date

Jack Chaney  
Jack Chaney

STATE OF \_\_\_\_\_ )  
 ) SS:  
COUNTY OF \_\_\_\_\_ )


On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally appeared Jack Chaney, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

S E A L

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

My commission expires \_\_\_\_\_

7-6-98  
Date

  
Michael A. Kaufman

STATE OF \_\_\_\_\_ )  
 ) SS:  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally appeared Michael A. Kaufman, to me known to be the person named in and who executed the above instrument, and acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

SEAL

**Notary Public**

My commission expires \_\_\_\_\_