

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

| SUBMISSION TYPE:                                                                                                                                                                                                                                                                                                                                                                                                                                   | NEW ASSIGNMENT     |               |                |                     |                    |                 |             |                  |               |              |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------|----------------|---------------------|--------------------|-----------------|-------------|------------------|---------------|--------------|-------|
| NATURE OF CONVEYANCE:                                                                                                                                                                                                                                                                                                                                                                                                                              | ASSIGNMENT         |               |                |                     |                    |                 |             |                  |               |              |       |
| CONVEYING PARTY DATA                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |               |                |                     |                    |                 |             |                  |               |              |       |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Sampo J. Kaasila</td> <td>05/11/2012</td> </tr> <tr> <td>John S. Collins</td> <td>05/04/2012</td> </tr> <tr> <td>Edward W. Porter</td> <td>05/21/2012</td> </tr> </tbody> </table>                                                                                                                                                           |                    | Name          | Execution Date | Sampo J. Kaasila    | 05/11/2012         | John S. Collins | 05/04/2012  | Edward W. Porter | 05/21/2012    |              |       |
| Name                                                                                                                                                                                                                                                                                                                                                                                                                                               | Execution Date     |               |                |                     |                    |                 |             |                  |               |              |       |
| Sampo J. Kaasila                                                                                                                                                                                                                                                                                                                                                                                                                                   | 05/11/2012         |               |                |                     |                    |                 |             |                  |               |              |       |
| John S. Collins                                                                                                                                                                                                                                                                                                                                                                                                                                    | 05/04/2012         |               |                |                     |                    |                 |             |                  |               |              |       |
| Edward W. Porter                                                                                                                                                                                                                                                                                                                                                                                                                                   | 05/21/2012         |               |                |                     |                    |                 |             |                  |               |              |       |
| RECEIVING PARTY DATA                                                                                                                                                                                                                                                                                                                                                                                                                               |                    |               |                |                     |                    |                 |             |                  |               |              |       |
| <table border="1"> <tr> <td>Name:</td> <td>Bitstream Inc.</td> </tr> <tr> <td>Street Address:</td> <td>500 Nickerson Road</td> </tr> <tr> <td>City:</td> <td>Marlborough</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>01752</td> </tr> </table>                                                                                                                                             |                    | Name:         | Bitstream Inc. | Street Address:     | 500 Nickerson Road | City:           | Marlborough | State/Country:   | MASSACHUSETTS | Postal Code: | 01752 |
| Name:                                                                                                                                                                                                                                                                                                                                                                                                                                              | Bitstream Inc.     |               |                |                     |                    |                 |             |                  |               |              |       |
| Street Address:                                                                                                                                                                                                                                                                                                                                                                                                                                    | 500 Nickerson Road |               |                |                     |                    |                 |             |                  |               |              |       |
| City:                                                                                                                                                                                                                                                                                                                                                                                                                                              | Marlborough        |               |                |                     |                    |                 |             |                  |               |              |       |
| State/Country:                                                                                                                                                                                                                                                                                                                                                                                                                                     | MASSACHUSETTS      |               |                |                     |                    |                 |             |                  |               |              |       |
| Postal Code:                                                                                                                                                                                                                                                                                                                                                                                                                                       | 01752              |               |                |                     |                    |                 |             |                  |               |              |       |
| PROPERTY NUMBERS Total: 1                                                                                                                                                                                                                                                                                                                                                                                                                          |                    |               |                |                     |                    |                 |             |                  |               |              |       |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>10700376</td> </tr> </tbody> </table>                                                                                                                                                                                                                                                                          |                    | Property Type | Number         | Application Number: | 10700376           |                 |             |                  |               |              |       |
| Property Type                                                                                                                                                                                                                                                                                                                                                                                                                                      | Number             |               |                |                     |                    |                 |             |                  |               |              |       |
| Application Number:                                                                                                                                                                                                                                                                                                                                                                                                                                | 10700376           |               |                |                     |                    |                 |             |                  |               |              |       |
| CORRESPONDENCE DATA                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |               |                |                     |                    |                 |             |                  |               |              |       |
| <p>Fax Number: (617)946-4801<br/>         Phone: 617-946-4830<br/>         Email: bosippto@seyfarth.com<br/> <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Brian Michaelis<br/>         Address Line 1: Seaport East<br/>         Address Line 2: Two Seaport Lane, Suite 300<br/>         Address Line 4: Boston, MASSACHUSETTS 02210-2028</p> |                    |               |                |                     |                    |                 |             |                  |               |              |       |
| ATTORNEY DOCKET NUMBER:                                                                                                                                                                                                                                                                                                                                                                                                                            | 54680              |               |                |                     |                    |                 |             |                  |               |              |       |
| NAME OF SUBMITTER:                                                                                                                                                                                                                                                                                                                                                                                                                                 | Brian Michaelis    |               |                |                     |                    |                 |             |                  |               |              |       |
| Total Attachments: 4<br>source=Assignment (US Patent # 7737993)#page1.tif<br>source=Assignment (US Patent # 7737993)#page2.tif<br>source=Assignment (US Patent # 7737993)#page3.tif<br>source=Assignment (US Patent # 7737993)#page4.tif                                                                                                                                                                                                           |                    |               |                |                     |                    |                 |             |                  |               |              |       |

CH \$40.00 10700376

ASSIGNMENT AND AGREEMENT

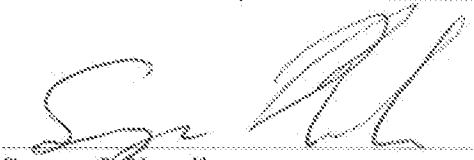
For and in consideration of One Dollar and other good and valuable consideration, the receipt of which is hereby acknowledged, We, **Sampo J. Kaasila** residing at 6 Squirrel Run Road, Plaistow, NH 03865; **John S. Collins** residing at 9 Hawthorne Place, Apt. 9E, Boston, MA, 02114; and **Edward W. Porter** residing at 4017 Shannon Drive, Fort Worth, TX 75116; have sold, assigned and transferred, and do hereby sell, assign and transfer, unto Bitstream Inc., a Delaware corporation, having a place of business at 500 Nickerson Road, Marlborough, MA 01752 (hereinafter "ASSIGNEE") and its successors and assigns, the entire right, title and interest in and to certain inventions relating to improvement in **METHODS, SYSTEMS, AND PROGRAMMING FOR PRODUCING AND DISPLAYING SUBPIXEL-OPTIMIZED IMAGES AND DIGITAL CONTENT INCLUDING SUCH IMAGES**, application serial number 10/700,376 filed November 3, 2003, now U.S. Patent No. 7,737,993, as may be described and claimed in an application for Letters Patent of the United States of America executed by us, together with the entire right, title and interest in and to said application, and in and to Letters Patent which may be issued upon said application, and any divisions, extensions, continuations or reissues thereof.

We hereby also sell, assign and transfer unto ASSIGNEE the entire right, title and interest in and to said inventions and in and to applications for Letters Patent therefor in all countries foreign to the United States of America, including all rights under any and all international conventions and treaties in respect of said inventions and said applications for Letters Patent in foreign countries, and we further authorize ASSIGNEE to apply for Letters Patent in foreign countries directly in its own name, and to claim priority of the filing date of the application for Letters Patent of the United States of America under the provisions of any and all international conventions and treaties.

We agree that, when requested, we will, without charge to ASSIGNEE, but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in ASSIGNEE, its successors, assigns and legal representatives or nominees.

We covenant to ASSIGNEE, its successors, assigns and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license or other encumbrance.

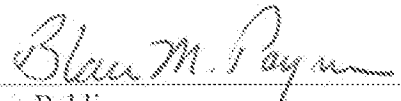
IN WITNESS WHEREOF, I, Sampo J. Kaasila, hereunto set my hand this  
day of May 11, 2012.

  
Sampo J. Kaasila

STATE OF NEW HAMPSHIRE )  
COUNTY OF ROCKINGHAM )SS:

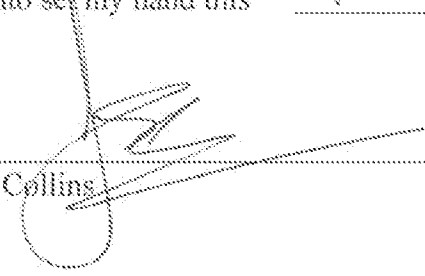
I hereby certify that before me personally appeared SAMPO J. KAASILA (NAME) known to me to be the individual described in the foregoing instrument, and that in my presence executed this instrument and who by me was sworn and did acknowledge that he had the authority to execute this assignment on behalf of assignor and that he executed this instrument as his free act and deed on this 11 day of MAY, 2012.

(SEAL)

  
Notary Public



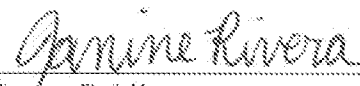
IN WITNESS WHEREOF, I, John S. Collins, hereunto set my hand this 4  
day of May, 2012.

  
John S. Collins

STATE OF MA)  
COUNTY OF Suffolk)SS:

I hereby certify that before me personally appeared John Collins (NAME) known to me to be the individual described in the foregoing instrument, and that in my presence executed this instrument and who by me was sworn and did acknowledge that he had the authority to execute this assignment on behalf of assignor and that he executed this instrument as his free act and deed on this 4 day of May, 2012.

(SEAL)

  
Notary Public

JANINE RIVERA  
Notary Public, Massachusetts  
My Commission Expires November 2, 2018

IN WITNESS WHEREOF, I, Edward W. Porter, hereunto set my hand this 5/21/12  
day of \_\_\_\_\_, 2012.

Edward W. Porter  
Edward W. Porter

STATE OF Texas )  
COUNTY OF Tarrant ) SS:

I hereby certify that before me personally appeared Edward W. Porter (NAME) known to me to be the individual described in the foregoing instrument, and that in my presence executed this instrument and who by me was sworn and did acknowledge that he had the authority to execute this assignment on behalf of assignor and that he executed this instrument as his free act and deed on this 21st day of May, 2012.

(SEAL)

Rosa I. Rojas  
Notary Public

