

**PATENT ASSIGNMENT**

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| SUBMISSION TYPE:   | NEW ASSIGNMENT                                      |
| NATURE OF CONVEYANCE:  | ASSIGNMENT  |
| <b>CONVEYING PARTY DATA</b>  |   |
| <b>Name</b>  | <b>Execution Date</b>                               |
| Yu LIU   | 11/27/2009  |
| David Allan ROSS   | 11/30/2009  |
| Kizito Gysbertus Antonius VAN ASTEN  | 11/30/2009  |
| <b>RECEIVING PARTY DATA</b>  |   |
| <b>Name:</b>   | ROSS VIDEO LIMITED                                  |
| <b>Street Address:</b>   | 9 Slack Road  |
| <b>City:</b>   | Nepean, Ontario                                     |
| <b>State/Country:</b>  | CANADA  |
| <b>Postal Code:</b>  | K2G 0B7   |
| <b>PROPERTY NUMBERS Total: 1</b>   |   |
| <b>Property Type</b>   | <b>Number</b>                                       |
| <b>Application Number:</b>   | 12627386  |
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| <b>ATTORNEY DOCKET NUMBER:</b>   | 740618-95   |
| <b>NAME OF SUBMITTER:</b>  | Jeffrey L. Costellia                                |

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Total Attachments: 3  
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**PATENT  
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## ASSIGNMENT

WHEREAS, we, Yu Liu, David Allan Ross and Kizito Gysbertus Antonius Van Asten, citizens of Canada, residing at, respectively, 97 Evanshen Crescent, Ottawa, Ontario K2K 2X7, Canada; 69 Armagh Way, Nepean, Ontario K2J 4C1, Canada and 17 Sandwell Crescent, Kanata, Ontario K2K 1V3, Canada, (hereinafter referred to as the "Assignors"), have made certain inventions and discoveries disclosed in United States Patent Application to be filed and entitled ELECTRONIC HARDWARE RESOURCE MANAGEMENT IN VIDEO PROCESSING, (hereinafter referred to as the "Application");

AND WHEREAS, ROSS VIDEO LIMITED, whose full post office address is 9 Slack Road, Nepean, Ontario, K2G 0B7, Canada, is desirous of acquiring the entire right, title, and interest in and to said inventions and discoveries, and in and to the Application inclusive of any and all priority rights derived therefrom for any and all countries in the world, and in and to any and all Letters Patent issuing in any and all countries in the world, to be granted for said inventions and discoveries based on said Application or on patent applications filed in any country claiming priority from said Application;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we the Assignors, do hereby sell, assign, transfer, and set over unto the Assignee, its successors and assigns, our entire right, title, and interest in and to the inventions and discoveries disclosed in the Application, and in and to the Application and any continuations or divisions thereof and all priority rights derived therefrom, and in and to any and all patent applications and any continuations or divisions thereof filed in any country claiming priority from the Application, and in and to all Letters Patent which may be granted upon the Application or upon patent applications filed in any and all countries in the world including the United States of America, claiming priority from the Application, and in and to any and all reissues, substitutions, or prolongations thereof; the same to be held and enjoyed by the Assignee for its own use and behoof, and for the use and behoof of its successors and assigns, to the full end of the term or terms for which said Letters Patent, or reissues, substitutions, or prolongations thereof may be granted, as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made;

AND we hereby agree that, upon request, and without further consideration, but at the expense of the Assignee, we will communicate to the Assignee or its representatives or nominees any facts known to us respecting said inventions and discoveries and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths and generally aid the Assignee, its successors, assigns, and nominees to obtain and enforce proper patent protection for said inventions and discoveries in all countries, and we further agree to execute

any and all further papers which may be necessary or desirable to vest or perfect the title of the Assignee, its successors and assigns, in and to said inventions and discoveries, and in and to any and all Letters Patent or reissues thereof which may be granted upon application in any and all countries in the world.

AND we hereby authorize and request any official whose duty it is to issue patents to issue each and every Letters Patent to be granted upon the aforesaid Application in any and all countries, and each and every reissue of said Letters Patent, to the Assignee, its successors and assigns, as the assignee of our entire right, title and interest therein, in accordance with this assignment.

THIS assignment is effective immediately.

SIGNED this 27 day of November, 2009

y. Hollan  
WITNESS

Yu Liu  
Yu Liu

SIGNED this 30<sup>th</sup> day of November, 2009

J. Holland  
WITNESS

David Allan Ross  
David Allan Ross

SIGNED this 30 day of Nov, 2009

y. Hollan  
WITNESS

Kizito Gysbertus Antonius Van Asten  
Kizito Gysbertus Antonius Van Asten

ACKNOWLEDGED AND ACCEPTED at Ottawa, this 30 day of November, 2009.

ROSS VIDEO LIMITED

BY: Y. Hollant  
Yvonne Hollant

print name

C.I.O.  
title