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To the Honorable Commissioner of Patents and Trademarks: Please n

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Copy thereof.

## 1. Name of conveying party(ies):

RYAN, John G. (Cork, Ireland)  
KEANE, John A. (Co. Cork, Ireland)  
VAN ETTINGER, Rudolf G.  
(West Lothian, Scotland)Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: \_\_\_\_\_

## 2. Name and address of receiving party(ies):

Name: Silicon Systems Research Limited

Internal Address: \_\_\_\_\_

Street Address: 32-34 Harcour Street

Dublin 2, IRELAND

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

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

## 4. Application number(s) or patent number(s): Attorney Docket No.: SSD-0031

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s) S/N: 09/211,722

B. Patent No.(s)

"Multiple Level Quantizer"

Additional numbers attached? ☐ Yes ☒ No

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

Name: Richard K. Robinson

Internal Address: \_\_\_\_\_

Street Address: \_\_\_\_\_

12900 Preston Road, LB-41

City: Dallas State: TX ZIP: 75230

## 6. Total number of applications and patents 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)

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## 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.

HARRY C. POST, III

Name of Person Signing

Signature

March 16, 1999

Date

Total number of pages comprising cover sheet:

1

**ASSIGNMENT**

**WHEREAS, WE, John G. Ryan, John A. Keane and Rudolf G. van Ettinger**, hereby declare that our citizenship, residence address and post office address are stated below, respectively, have jointly made an invention entitled

**“Multiple Level Quantizer”**

for which we have executed an application for United States Letters Patent contemporaneously herewith; and we hereby authorize our attorneys, authorized to prosecute said application, to here insert the filing date and serial number of said application, when known:

Filed: December 14, 1998      Serial No.: 09/211,722

**WHEREAS**, we represent and warrant that we are the joint owners of said invention and application for Letters Patent;

**WHEREAS**, Silicon Systems Research Limited (hereinafter referred to as ASSIGNEE), a corporation organized under the laws of the Republic of Ireland having a place of business at 32-34 Harcourt Street, Dublin 2, Ireland, is desirous of acquiring the same;

**NOW, THEREFORE**, for and in consideration of One Dollar (\$1.00) and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by us, we have assigned, sold, transferred and set over and by these presents do assign, sell, transfer and set over unto said ASSIGNEE the entire right, title and interest in and to (a) said invention and worldwide rights therein; (b) said application, including all divisions, continuations and substitutions thereof; and (c) all United States and foreign patents which shall issue on said invention, including all reissues, renewals and extensions

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*Assignment*

*Attorney Docket No.: SSD-0031*

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thereof, for the United States, its territories and possessions and all foreign countries, including the right to file corresponding applications for Letters Patent on said invention in any and all foreign countries, and to claim priority under any and all treaties and conventions to which the United States of America is signatory including the Paris Convention for the Protection of Industrial Property for such corresponding applications, or any division, continuation or substitution thereof, the same to be held and enjoyed by said ASSIGNEE, its assigns and successors, as fully and entirely as the same would have been held and enjoyed by us, had this assignment not been made.

We jointly and severally covenant and agree that we will, at any time upon the request and at the expense of said ASSIGNEE, execute and deliver any and all papers and do all lawful acts that may be necessary or desirable, in the opinion of said ASSIGNEE, to enable and assist said ASSIGNEE to (a) obtain Letters Patent, both domestic and foreign, on said invention; (b) establish, maintain and secure title in said ASSIGNEE, its successors and assigns, to said invention, application and Letters Patent, including making such title of lawful public record; and (c) defend, establish or otherwise preserve the validity of said Letters Patent against any and all infringers, and perform such other acts as are necessary to give full force and effect to this assignment.

We jointly and severally represent and covenant that no assignment, mortgage, sale, license, pledge, encumbrance or alienation of said invention or patent application has been or will be made or entered into which would conflict with this assignment and sale.

We hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent based on said application and each division, continuation, substitution, reissue, renewal and extension thereof to said ASSIGNEE, its successors and assigns.

Each of the undersigned further declares that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed

to be true; and further that these statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**IN TESTIMONY WHEREOF**, we have duly executed this assignment on the date as indicated next to our names.

**Full name of**

**first joint Inventor:**            **John G. Ryan**

**Residence:**                    **Sequoia, Monastery Road  
Cork, Ireland**

**Citizenship:**                **Ireland**

**Post Office Address:**        **Silicon Systems Research Limited  
32-34 Harcourt Street  
Dublin 2, Ireland**

**Date:** Nov 24 1998



**JOHN G. RYAN**

**Full name of**

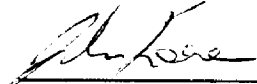
**second joint Inventor:**       **John A. Keane**

**Residence:**                   **Inchingerig  
Drimoleague  
Co. Cork, Ireland**

**Citizenship:**                **Ireland**

**Post Office Address:**        **Silicon Systems Research Limited  
32-34 Harcourt Street  
Dublin 2, Ireland**

**Date:** Nov 25 '98



**JOHN A. KEANE**

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*Assignment*

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**Full name of  
third joint Inventor:**      **Rudolf G. van Ettinger**

**Residence:**                      **West Binny Cottage  
Dechmont  
West Lothian EH52 6NB  
Scotland**

**Citizenship:**                      **Holland**

**Post Office Address:**          **Same as Above**

**Date:** Nov 28 1998        
   **RUDOLF G. VAN ETTINGER**

**\*NOTARY/WITNESS NOT REQUIRED\***

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*Attorney Docket No.: SSD-0031*  
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