
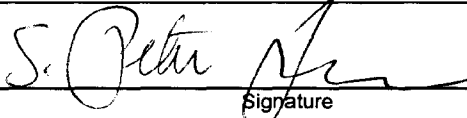


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To the Director of the U.S. Patent and Trademark Office, record the attached documents or the new address(es) below.		
1. Name of conveying party(ies)/Execution Date(s): Guy Reina Execution Date(s): <u>October 14, 2004</u> Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies) Name: <u>STMICROELECTRONICS LTD.</u> Internal Address: _____ Street Address: _____ 9 Haomanut Street South Industrial Area City: <u>Netanya</u> State: _____ Country: <u>Israel</u> Zip: _____ Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____	4. Application or patent number(s): <input checked="" type="checkbox"/> This document is being filed together with a new application. A. Patent Application No.(s) <u>10/25/2004 SHASSEN1 00000001 10969442</u> B. Patent No.(s) _____ Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name and address to whom correspondence concerning document should be mailed: Name: <u>S. Peter Ludwig</u> <u>DARBY & DARBY P.C.</u> Internal Address: <u>Atty. Dkt.: 06727/1201112-US1</u> Street Address: <u>P.O. Box 5257</u> City: <u>New York</u> State: <u>NY</u> Zip: <u>10150-5257</u> Phone Number: <u>(212) 527-7770</u> Fax Number: <u>(212) 753-6237</u> Email Address: <u>pludwig@darbylaw.com</u>	6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ <u>40.00</u> <input type="checkbox"/> Authorized to be charged by credit card <input type="checkbox"/> Authorized to be charged to deposit account <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)	
8. Payment Information a. Credit Card Last 4 Numbers _____ Expiration Date _____ b. Deposit Account Number _____ Authorized User Name _____		
9. Signature: <div style="display: flex; justify-content: space-between; align-items: flex-end;"><div style="text-align: center;"> _____ Signature <u>S. Peter Ludwig - 25,351</u> Name of Person Signing</div><div style="text-align: right;">October 20, 2004 Date</div></div> <div style="display: flex; justify-content: flex-end; margin-top: 10px;">Total number of pages including cover sheet, attachments, and documents: 2</div>		

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ASSIGNMENT

WHEREAS, the below named inventor, ASSIGNOR, has made a certain new and useful invention in:

EFFICIENT TONE ORDERING FOR MULTITONE TRANSMISSION

for which the patent application specification is attached hereto and which is being executed concurrently herewith,

and WHEREAS, STMicroelectronics Ltd., an Israel company having a place of business at 9 Haomanut Street, South Industrial Area, Netanya, ASSIGNEE, is desirous of obtaining the entire right, title and interest in, to and under the said invention and the said application:

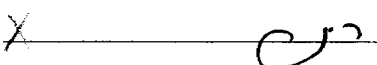
NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, the said ASSIGNOR, has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof, and all applications for industrial property protection, including, without limitation, all applications for patents, utility models and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other International agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventor's certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof.

ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR covenants and agrees that he has full right to convey the entire interest herein assigned, and has not executed, and will not execute, any agreement in conflict herewith.

AND ASSIGNOR further covenants and agrees that he will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

Full name of sole inventor: Guy Reina

Inventor's signature  Date 14/10/04

Residence: Givatayim, Israel

Citizenship: Israel

Post Office address: 1 Ha-morad Street, Givatayim, Israel

PATENT

RECORDED: 10/20/2004

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