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Commissioner for Patents: Please record the attached original document(s) or copy(ies).

1. Name of conveying party(ies): <b>Martin Raptis Picco and Noam Koren</b> Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): <b>Harmonic Inc.</b> <b>549 Baltic Way</b> <b>Sunnyvale, CA 94089</b>  Additional names/addresses 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"/> Other:  Execution Date: <b>August 27, 2004 and August 30, 2004</b>										
4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: <b>August 27, 2004 and August 30, 2004</b> A. Patent Application No(s): <b>Unassigned</b> B. Patent No(s):  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No										
5. Name/address of party to whom correspondence concerning document should be mailed:  <b>Mark D. Kirkland</b> <b>Fish &amp; Richardson P.C.</b> <b>500 Arguello Street, Suite 500</b> <b>Redwood City, California 94063</b>	6. Total number of applications/patents involved: <b>1</b> 7. Total fee (37 CFR §3.41): <b>\$40</b> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account. 8. Deposit Account No.: <b>06-1050</b> Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.									
<b>DO NOT USE THIS SPACE</b>										
9. Statement and Signature: <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>  <table border="0" style="width: 100%;"> <tr> <td style="width: 33%;"><b>David J. Goren</b></td> <td style="width: 33%; text-align: center;"></td> <td style="width: 33%; text-align: center;"><b>8/30/04</b></td> </tr> <tr> <td>Reg. No. 34,609</td> <td style="text-align: center;">Signature</td> <td style="text-align: center;">Date</td> </tr> <tr> <td>Name of Person Signing</td> <td></td> <td></td> </tr> </table>		<b>David J. Goren</b>		<b>8/30/04</b>	Reg. No. 34,609	Signature	Date	Name of Person Signing		
<b>David J. Goren</b>		<b>8/30/04</b>								
Reg. No. 34,609	Signature	Date								
Name of Person Signing										
Total number of pages including coversheet, attachments and document: <b>5</b>										

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**CERTIFICATE OF MAILING BY EXPRESS MAIL**

Express Mail Label No. EV 322 525 153 US

Date of Deposit: August 30, 2004

**PATENT**  
**REEL: 015762 FRAME: 0601**

ASSIGNMENT

For valuable consideration, we, MARTIN RAPTIS PICCO of Santa Cruz, California and NOAM KOREN of Haniel, Israel, hereby assign to:

Harmonic Inc., a corporation of Delaware having a place of business at:

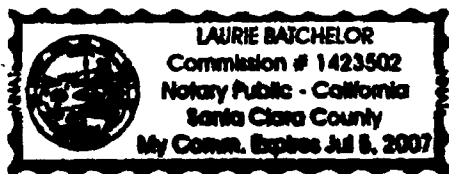
549 Baltic Way  
Sunnyvale, CA 94089; and

its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled MESSAGE SYNCHRONIZATION OVER A STOCHASTIC NETWORK, filed \_\_\_\_\_, and assigned U.S. Serial Number \_\_\_\_\_, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at Sunnyvale, California  
this 27th day of August, 2004  
[Signature] L.S.  
MARTIN RAPTIS PICCO

State of : California  
: ss.  
County of : Santa Clara

Before me this 27th day of August, 2004, personally  
appeared MARTIN RAPTIS PICCO known to me to be the person whose name is subscribed to  
the foregoing Assignment and acknowledged that he executed the same as his free act and deed  
for the purposes therein contained.



Notary Public Laurie Batchelor  
My Commission Expires: July 5, 2007

I hereto set my hand and seal at \_\_\_\_\_  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
\_\_\_\_\_  
NOAM KOREN L.S.

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Attorney Docket No: 08746-056001

ASSIGNMENT

For valuable consideration, we, MARTIN RAPTIS PICCO of Santa Cruz, California and NOAM KOREN of Haniel, Israel, hereby assign to:

Harmonic Inc., a corporation of Delaware having a place of business at:

549 Baltic Way  
Sunnyvale, CA 94089; and

its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled MESSAGE SYNCHRONIZATION OVER A STOCHASTIC NETWORK, filed \_\_\_\_\_, and assigned U.S. Serial Number \_\_\_\_\_, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Attorney Docket No: 08746-056001

IN WITNESS WHEREOF, I hereto set my hand and seal at \_\_\_\_\_,  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_  
\_\_\_\_\_  
L.S.

MARTIN RAPTIS PICCO

State of \_\_\_\_\_ :

: ss.

County of \_\_\_\_\_ :

Before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_, personally  
appeared MARTIN RAPTIS PICCO known to me to be the person whose name is subscribed to  
the foregoing Assignment and acknowledged that he executed the same as his free act and deed  
for the purposes therein contained.

Notary Public

My Commission Expires:

I hereto set my hand and seal at \_\_\_\_\_,  
this 30 day of August, 2004  
\_\_\_\_\_  
L.S.  
NOAM KOREN

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