

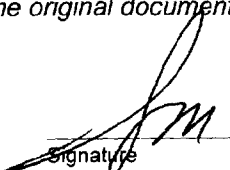
09-20-2000



Substitute Form PTO-1595  
Attorney Docket No.: 10559/153001  
Client's Ref. No.: P7987

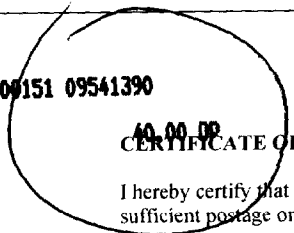
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**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

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

<p>1. Name of conveying party(ies):</p> <p>Emmy C. Huang Alexandre A. Klementiev William F. Poling L ynice S. Spangler</p> <p>Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies):</p> <p>INTEL CORPORATION 2200 Mission College Boulevard Santa Clara, CA 95052</p> <p>Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other:</p> <p>Execution Date: 08/09/00, 08/09/00, 08/11/00 and 08/15/00 Respectively</p>	
<p>4. Application number(s) or patent number(s):</p> <p>If this document is being filed with a new application, the execution date of the application is:</p> <p>A. Patent Application No(s): 09/541,390</p> <p>B. Patent No(s):</p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>5. Name/address of party to whom correspondence concerning document should be mailed:</p> <p>SCOTT C. HARRIS Fish &amp; Richardson P.C. Customer Number: 20985 4350 La Jolla Village Drive, Suite 500 San Diego, CA 92122</p>	<p>6. Total number of applications/patents involved: 1</p> <p>7. Total fee (37 CFR §3.41): \$40</p> <p><input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account.</p> <p>8. Deposit Account No.: 06-1050</p> <p>Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.</p>
<p><b>DO NOT USE THIS SPACE</b></p>	
<p>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></p> <p>Scott C. Harris Reg. No. 32,030 Name of Person Signing</p> <p> Signature</p> <p>8/23/00 Date</p>	
<p>Total number of pages including coversheet, attachments and document: 3</p>	

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**CERTIFICATE OF MAILING BY FIRST CLASS MAIL**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner of Patents, Washington, D.C. 20231.

August 23, 2000  
Date of Deposit

  
Signature

Roxanne Ippolito  
Typed Name of Person Signing Certificate

Attorney Docket No.: 10559/153001/P7987

*MacIver*

ASSIGNMENT

*PORTLAND*

For valuable consideration, we, LYNICE S. SPANGLER of Beaverton, OR, DOUGLAS  
M. MACIVER of Santa Clara, CA, ALEXANDRE A. KLEMENTIEV of Santa Clara, CA,

*PORTLAND, OR*

*Portland, OR*

EMMY C. HUANG of Santa Clara, CA, hereby assign to INTEL CORPORATION, a Delaware

*PORTLAND, OR*

corporation having a place of business at: 2200 Mission College Boulevard, Santa Clara, CA 95052, 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 MANAGING BANDWIDTH IN DIGITAL COMMUNICATION, filed March 31, 2000, and assigned U.S. Serial Number 09/541,390, 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

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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.

DATE: 8/9/2000

Lynice S. Spangler  
Lynice S. Spangler

DATE: Aug 9 2000

Douglas M. MacIver  
Douglas M. MacIver → MacIver

DATE: Aug 11, 2000

Alexandre A. Klementiev  
Alexandre A. Klementiev

DATE: August 15, 2000

Emmy C. Huang  
Emmy C. Huang

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