

FORM PTO-15

02-10-1999

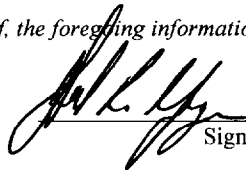


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PATENT Attorney Docket: 6136/53588 Date: January 26, 1999

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

<p><b>1. Name of conveying party(ies):</b>          Hunt Hang Jiang          Thomas Massingill          Mark Thomas McCormack          Michael Guang-Tzong Lee</p> <p style="text-align: center; font-size: 2em;">2-1-99</p>	<p><b>2. Name and address of receiving party(ies):</b>          Name: <b>Fujitsu Limited</b>          Street address: 1-1, Kamikodanaka 4-chome,          Nakahara-ku, Kawasaki-Shi          Kanagawa, 211-8588          J A P A N</p>
<p><b>3. Nature of conveyance:</b>  <input checked="" type="checkbox"/> Assignment  <input type="checkbox"/> Security Agreement  <input type="checkbox"/> Merger  <input type="checkbox"/> Change of Name  <input type="checkbox"/> Other:          Execution Date: January 21, 1999</p>	
<p><b>4. Application numbers or patent number(s): 09/192,003 Filed: November 13, 1998</b>          If this document is being filed together with a new application, the execution date of the application is:</p>	
<p><b>5. Name and address of party to whom correspondence concerning document should be mailed:</b>          COUDERT BROTHERS          Four Embarcadero Center, Suite 3300          San Francisco, CA 94111</p>	<p><b>6. Total number of applications and patents involved: 1</b>  <b>7. Total fee (37 CFR 3.41): \$40.00</b>  <input checked="" type="checkbox"/> Enclosed          8. The Commissioner is hereby authorized to charge any additional fees which may be required to record the attached Assignment(s) under 37 C.F.R. §§1.16-1.17 or credit any overpayment, to Deposit Account No. 13-0201. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 13-0201.</p>
<p style="text-align: center;">40.00 DP DO NOT USE THIS SPACE</p> <p style="text-align: right; font-size: 2em;">40E</p>	
<p><b>9. Statement and signature.</b>  <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>Hal R. Yeager _____          Name of Person Signing</p> <p style="text-align: center;"> _____          Signature</p> <p style="text-align: right;">1/26/99 _____          Date</p> <p>35,419 _____          Registration Number</p> <p style="text-align: center;">*Total number of pages including cover sheet, attachments and document: <u>4</u></p>	

02/08/1999 JSWBAZZ 00000070 09192003

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**ASSIGNMENT**

We, Hunt Hang Jiang, having a residence address at 1045 Regency Knoll Drive, San Jose, California 95129; Thomas Massingill, having a residence address at 170 Northridge Drive, Scotts Valley, California 95134; Mark Thomas McCormack, having a residence at 743 Pine Avenue, San Jose, California 95125; and Michal Guang-Tzong Lee, having a residence of 6064 Sage Oak Way, San Jose, California 95120, for good and valuable consideration, receipt of which is hereby acknowledged, have assigned and do hereby assign to FUJITSU LIMITED, a Japanese corporation, having a place of business at 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa, 211-8588, Japan, its successors, assigns and legal representatives, the entire right, title and interest in and to all subject matter invented by us and disclosed in the application for Letters Patent of the United States entitled

**MULTILAYER LAMINATED SUBSTRATES WITH HIGH DENSITY INTERCONNECTS AND METHODS OF MAKING THE SAME**

signed by us (Attorney Docket No. **6136/53588**) United States Serial No. 09/192,003 filed November 13, 1998 and in and to all Letters Patent and all Convention and Treaty rights of all kinds, in all countries throughout the world, for all such subject matter. We agree to sign all documents necessary to secure all said Letters Patent and rights, and request issuance of all said Letters Patent to the above assignee in accordance with this assignment.

We further authorize and direct **FUJITSU LIMITED**'s attorneys to insert the serial number and filing date of said application now identified as Attorney Docket No. **6136/53588** in the space provided above as soon as the same shall have been made known to them by the United States Patent and Trademark Office.

Date: 1/21/99

  
Hunt Hang Jiang

Date: 1/21/99

  
Thomas Massingill

Date: 1/21/99

  
Mark Thomas McCormack

Date: 1/21/99

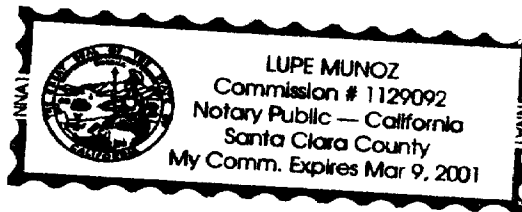
  
Michael Guang-Tzong Lee

STATE OF California )  
 ) SS  
COUNTY OF Santa Clara )

On Jan 21, 1999 before me, Lupe Munoz, Notary Public (insert name and title of officer), personally appeared **Hunt Hang Jiang**, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Lupe Munoz



STATE OF California )  
 ) SS  
COUNTY OF Santa Clara )

On Jan 21, 1999 before me, Lupe Munoz, Notary Public (insert name and title of officer), personally appeared **Thomas Massingill**, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Lupe Munoz

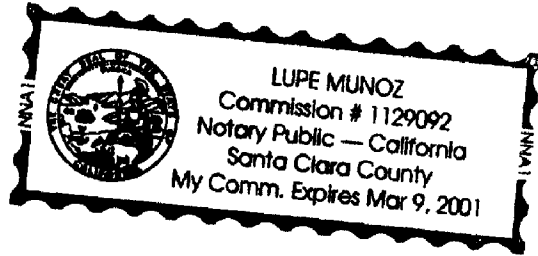


STATE OF CALIFORNIA )  
 ) SS  
COUNTY OF SANTA CLARA )

On JAN 21, 1999 before me, LUPE MUNOZ, Notary Public (insert name and title of officer), personally appeared **Mark Thomas McCormack**, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature *Lupe Munoz*



STATE OF California )  
 ) SS  
COUNTY OF Santa Clara )

On Jan. 21, 1999 before me, Lupe Munoz, Notary Public (insert name and title of officer), personally appeared **Michael Guang-Tzong Lee**, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature *Lupe Munoz*

