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US Department of Commerce  
Patent and Trademark OfficeDocket No.: **MP1704-US1**

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

Submission Type: <b>New</b>		Conveyance Type: <b>Assignment</b>										
Reel/Frame # (if applicable)		Document ID # (if applicable)										
Name of conveying party(ies): 1. <b>Chester L. Sandberg</b> 2. <b>Albert J. Highe</b> 3. <b>Jose Gamarra</b> 4. <b>Lawrence J. White</b> 5. <b>Frank Orecchia</b> Execution Date: 12/06/1999 12/06/1999 12/07/1999 12/06/1999 12/06/1999 Mark if additional name(s) of conveying party(ies) attached: <input checked="" type="checkbox"/>		Name and address of receiving party(ies): Name: <b>Tyco Electronics Corporation</b> Address: <b>2901 Fulling Mill Road</b> <b>Middletown, PA 17055-3166</b> Mark if additional name(s) of receiving party(ies) attached: <input type="checkbox"/>										
Patent application number(s) or patent number(s): If this document is being filed with a <u>new</u> patent application, enter here the date the patent application was signed by the first named executing inventor: Patent Application Number(s): <b>09/432,688</b>		Mark if additional number(s) attached: <input type="checkbox"/> Patent Number(s):										
Name and address of party to whom correspondence concerning this submission should be addressed: Name: <b>Marguerite E. Gerstner</b> Address: <b>Tyco Electronics Corporation</b> <b>Intellectual Property Law Dept.</b> <b>300 Constitution Dr., Mail Stop 106/1B</b> <b>Menlo Park, CA 94025-1164</b> Telephone: <b>650-361-2483</b>		Total number of properties involved: <b>1</b> Total fee (37 C.F.R. §3.41) \$ <b>40.00</b> <i>The Assistant Commissioner is hereby authorized to charge the above fee against the deposit account entered below. The Assistant Commissioner is further authorized to charge any deficiencies against, or to credit any overpayment to, such deposit account.</i> Deposit Account number: <b>18-0560</b>										
Total number of pages submitted, including cover sheet, document(s) and attachment(s): <b>9</b>												
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. Charges to deposit account are authorized, as indicated herein.</i> <table border="0" style="width: 100%;"> <tr> <td style="width: 33%;"><b>Marguerite E. Gerstner</b></td> <td style="width: 33%;"><i>Marguerite E. Gerstner</i></td> <td style="width: 33%;"><b>12/16/99</b></td> </tr> <tr> <td>Name of Person Signing</td> <td>Signature</td> <td>Date</td> </tr> <tr> <td>Registration No.: <b>32,695</b></td> <td></td> <td></td> </tr> </table>				<b>Marguerite E. Gerstner</b>	<i>Marguerite E. Gerstner</i>	<b>12/16/99</b>	Name of Person Signing	Signature	Date	Registration No.: <b>32,695</b>		
<b>Marguerite E. Gerstner</b>	<i>Marguerite E. Gerstner</i>	<b>12/16/99</b>										
Name of Person Signing	Signature	Date										
Registration No.: <b>32,695</b>												
FOR OFFICE USE ONLY												
02/08/2000 TTON11 00000264 180560 08432688 01 FC:581 40.00 CH												

## CERTIFICATE OF MAILING (37 CFR 1.8)

I hereby certify that this paper or fee is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, DC 20231, on the date indicated below:

Date of deposit: **December 16, 1999**Name (printed): **Michael Mitchell**Signature: *Michael Mitchell*Send to: Box Assignment, Assistant Commissioner for Patents, Washington DC 20231 (or, for new application, "Box Patent Application")

**PATENT**  
**REEL: 010529 FRAME: 0875**

**RECORDATION FORM COVER SHEET  
(CONTINUATION)**

**Additional Conveying Party(ies), Receiving Party(ies) Or Patent Application Or Patent Numbers**  
(Attach only if needed)

Additional of conveying party(ies):		Execution Date:	
6.	<b>Ted M. Aune</b>	12/06/1999	
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			

Additional receiving party(ies):			
Name:		Name:	
Address:		Address:	
Name:		Name:	
Address:		Address:	

Additional patent application number(s) or patent number(s)	
Patent Application Number(s):	Patent Number(s):

**ASSIGNMENT**

WHEREAS, I/we,

Chester L. Sandberg, Albert J. Highe, Jose Gamarra, Lawrence J. White,  
Frank Orecchia, Ted M. Aune

("INVENTOR(S)"), citizen(s) of United States of America, United States of America, United States of America, United States of America, United States of America, United States of America, United States of America, United States of America, respectively, and residing at 758 Torrey Court, Palo Alto, California 94303, 105 Montalvo Road, Redwood City, California 94062, 4581 Delores Drive, Union City, California 94587, 5412 Port Sailwood Drive, Newark, California 94560, 1166 Ebener Street, Redwood City, California 94063, 1075 Rambling Road, Boulder Creek, California 95006, respectively, have made a new and useful invention that is the subject of an application for United States Letters Patent thereon ("APPLICATION"), entitled

**ELECTRIC CABLE HAVING BRAIDLESS POLYMERIC GROUND PLANE PROVIDING  
FAULT DETECTION**

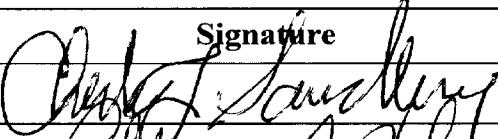
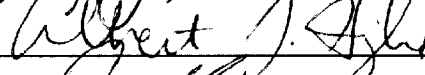

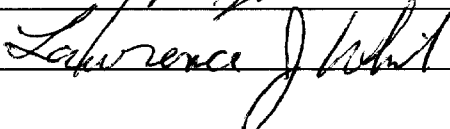
- ☐ for which I/we have this day executed the application papers for submission concurrently herewith to the United States Patent and Trademark Office; or
- ☒ which was filed on 11/03/99 and has been assigned U.S. Application Serial No. 09/432,688; and

WHEREAS,

TYCO ELECTRONICS CORPORATION ("ASSIGNEE"), a corporation organized and existing under and by virtue of the laws of the State of Pennsylvania, having its principal place of business at 2901 Fulling Mill Road, Middletown, PA 17057-3163,

is desirous of acquiring the exclusive right, title, and interest in and to the APPLICATION and in and to any Letters Patent to be granted and issued therefor in the United States of America and its territories and possessions, and all countries foreign thereto;

NOW THEREFORE, for a valuable consideration, the receipt of which is hereby acknowledged, I/we, the INVENTOR(S), do hereby sell, assign, transfer, and set over unto the said ASSIGNEE, its successors and assigns, the full and exclusive right, title and interest in and to the APPLICATION and in and to any and all Letters Patent to be granted and issued therefor, not only for, to and in the United States of America, its territories and possessions, but also for, to and in all other countries including all priority rights under the International Convention; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said ASSIGNEE, its successors and assigns, in accordance with this Assignment.

Name	Signature	Date
Chester L. Sandberg		12-6-99
Albert J. Highe		Dec. 6, 1999
Jose Gamarra		12-7-99
Lawrence J. White		12-6-1999

Frank Orecchia	<i>Frank Orecchia</i>	12-6-99
Ted M. Aune	<i>Ted M. Aune</i>	12/6/99

# CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of San Mateo

On 06 December, 1999 before me, Kathy C. McGee, Notary Public,  
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Albert J. Highe  
Name(s) of Signer(s)

☐ personally known to me ~~OR~~ ☒ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is/are~~ subscribed to the within instrument and acknowledged to me that he/she/they executed the same in ~~his/her/their~~ authorized capacity(ies), and that by ~~his/her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Kathy C. McGee  
Signature of Notary Public

## OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

## Description of Attached Document

Title or Type of Document: Assignment for MP1704-US1

Document Date: Dated by signatories Number of Pages: 2 (two)

Signer(s) Other Than Named Above: Chester L. Sandberg, Jose Gamarra, Lawrence J. White, Frank Orecchia and Ted M. Aune

## Capacity(ies) Claimed by Signer(s)

Signer's Name: Albert J. Highe

- ☒ Individual  
☐ Corporate Officer  
Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney-in-Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

Signer Is Representing:

RIGHT THUMBPRINT  
OF SIGNER

Top of thumb here

Signer's Name: \_\_\_\_\_

- ☐ Individual  
☐ Corporate Officer  
Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney-in-Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

Signer Is Representing:

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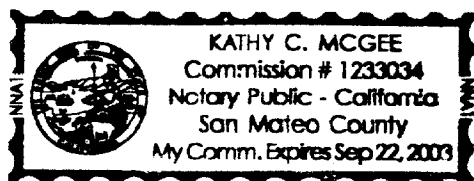
State of California

County of San Mateo

On 06 December 1999 before me, Kathy C. McGee, Notary Public,  
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Ted Michael Aune  
Name(s) of Signer(s)

☐ personally known to me ~~OR~~ ☒ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) ~~is/are~~ subscribed to the within instrument and acknowledged to me that ~~he/she/they~~ executed the same in his/~~her~~/their authorized capacity(~~ies~~), and that by ~~his/her/their~~ signature(~~s~~) on the instrument the person(~~s~~), or the entity upon behalf of which the person(~~s~~) acted, executed the instrument.



WITNESS my hand and official seal.

Kathy C. McGee  
Signature of Notary Public

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### Capacity(ies) Claimed by Signer(s)

Signer's Name: Ted Michael Aune

- ☒ Individual  
☐ Corporate Officer  
Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney-in-Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_

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OF SIGNER  
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Signer's Name: \_\_\_\_\_

- ☐ Individual  
☐ Corporate Officer  
Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney-in-Fact  
☐ Trustee  
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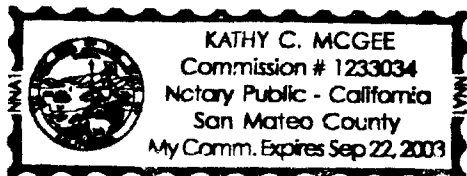
State of California

County of San Mateo

On 06 December 1999 before me, Kathy C. McGee, Notary Public  
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Chester Ledlie Sandberg Jr.  
Name(s) of Signer(s)

☐ personally known to me ~~OR~~ ☒ proved to me on the basis of satisfactory evidence to be the person~~s~~  
whose name~~s~~ ~~is/are~~ subscribed to the within instrument  
and acknowledged to me that he~~/she/they~~ executed the  
same in his~~/her/their~~ authorized capacity~~(ies)~~, and that by  
his~~/her/their~~ signature~~s~~ on the instrument the person~~s~~,  
or the entity upon behalf of which the person~~s~~ acted,  
executed the instrument.



WITNESS my hand and official seal.

Kathy C. McGee  
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Albert J. Highe, Jose Gamarra, Lawrence J. White,  
Signer(s) Other Than Named Above: Frank Orecchia and Ted M. Aune

### Capacity(ies) Claimed by Signer(s)

Signer's Name: Chester Ledlie Sandberg Jr. Signer's Name: \_\_\_\_\_

- ☒ Individual  
☐ Corporate Officer  
Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney-in-Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

Signer Is Representing:  
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\_\_\_\_\_

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### Capacity(ies) Claimed by Signer(s)

Signer's Name: Frank Samuel Orecchia

- ☒ Individual  
☐ Corporate Officer  
Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney-in-Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

Signer Is Representing:  
\_\_\_\_\_  
\_\_\_\_\_

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Signer's Name: Lawrence Joseph White

- ☒ Individual  
☐ Corporate Officer  
Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney-in-Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

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\_\_\_\_\_

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State of California

County of San Mateo

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### Capacity(ies) Claimed by Signer(s)

Signer's Name: Jose Gamarra

- ☒ Individual  
☐ Corporate Officer  
Title(s): \_\_\_\_\_  
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