

10-23-2003



SHEET

10.70.53

102582158

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

1. Name of conveying party(ies):

William Neil ANDERSON,
Michael Steven STANARD and
William Richard DELANO

2. Name and address of receiving party(ies):

Tyco Electronics Corporation
2901 Fulling Mill Road
Middletown, PA 17057
United States of America

3. Nature of conveyance: ASSIGNMENT

Effective Date: January 16, 2001

Execution Date(s): August 26, 2003, July 24, 2003 and July 30, 2003

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s):
10/465,957

B. Patent No.(s):

PCT Filing Date: January 16, 2002

5. Name and address of party to whom correspondence concerning document should be mailed:

Driscoll A. Nina
TYCO TECHNOLOGY RESOURCES
4550 New Linden Hill Road
Suite 140
Wilmington, DE 19808

6. Total number of applications and patents involved: One

7. Total fee (37 CFR 3.41) \$40.00
AUTHORIZED TO BE CHARGED TO
DEPOSIT ACCOUNT

8. Deposit Account #23-1950

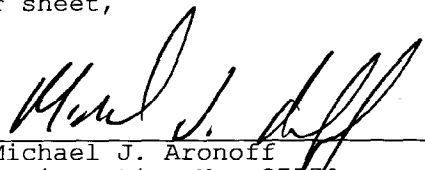
9. Statement and signature.

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.

Total number of pages including cover sheet, attachments, and document: 7

10/22/2003 ECOOPER 00000092 231950 10465957

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Michael J. Aronoff
Registration No. 37770
Attorney for Applicant(s)
Date: October 16, 2003

Docket No. 17808 US

ASSIGNMENT

We, William Neil ANDERSON, Michael Steven STANARD and William Richard DELANO, who reside respectively at:

1372 North Mohawk, Chicago, IL 60610, United States of America;
1012 North Harvey, Oak Park, IL 60302, United States of America; and
2217 West Cascade Circle, Round Lake, IL 60073, United States of America

have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled:

"CIRCUIT BOARD ROUTER APPARATUS AND METHOD THEREOF"

which application was executed by the inventor(s) on the date(s) of execution of this assignment and is identified by Attorney Docket Number 17808, US Provisional Patent Application No. 60/261,950 filed the 16th day of January, 2001,

and Tyco Electronics Corporation whose address is 2901 Fulling Mill Road, Middletown, PA 17057, United States of America

and which, together with its successors and assigns is hereinafter called "Assignee", is desirous of acquiring the title, rights, benefits and privileges hereinafter recited, and of confirming the same or part thereof heretofore acquired by Assignee.

Now, therefore, for valuable consideration furnished by Assignee to me/us, receipt and sufficiency of which I/we hereby acknowledge, without reservation:

1. Assign and convey to and confirm in Assignee the entire right, title and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation and convention applications based in whole or in part upon said inventions or discoveries or upon said applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications, and said Letters Patent;

2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in my name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;

3. Authorize and request the empowered officials of all governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;


4. Warrant that I have not knowingly conveyed to others any right in said inventions, discoveries, applications or patent or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries, and that I have good right to assign the same to Assignee without encumbrance;

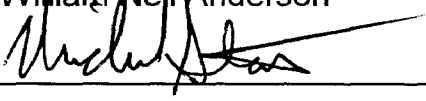
5. Bind my heirs and legal representatives, as well as myself, to do, upon Assignee's request and at its expense, but without additional consideration to me or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications and the said Letters Patent shall be held and enjoyed by Assignee as fully and

entirely as the same could have been held and enjoyed by me or my heirs or representatives if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to me relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in my control or in the control of my heirs or legal representatives and which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said inventions and discoveries.

The effective date of this instrument is the 16th of January 2001.

In testimony whereof we have affixed our signatures.

Inventor 1:  Date: 8/26/03
William Neil Anderson

Witness 1:  Date: 8/26/03

Witness 2:  Date: 8/26/03

Inventor 2: _____ Date: _____
Michael Steven Stanard

Witness 1: _____ Date: _____

Witness 2: _____ Date: _____

Inventor 3: _____ Date: _____
William Richard Delano

Witness 1: _____ Date: _____

Witness 2: _____ Date: _____

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1. Assign and convey to and confirm in Assignee the entire right, title and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation and convention applications based in whole or in part upon said inventions or discoveries or upon said applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications, and said Letters Patent;

2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in my name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;

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5. Bind my heirs and legal representatives, as well as myself, to do, upon Assignee's request and at its expense, but without additional consideration to me or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent

applications and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by me or my heirs or representatives if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to me relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in my control or in the control of my heirs or legal representatives and which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said inventions and discoveries.

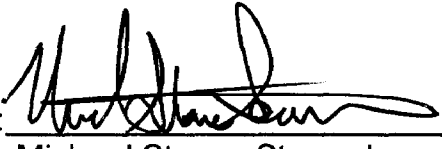
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In testimony whereof we have affixed our signatures.


Inventor 1: _____ Date: _____
William Neil Anderson

Witness 1: _____ Date: _____

Witness 2: _____ Date: _____

Inventor 2:  _____ Date: 7/24/03
Michael Steven Stanard

Witness 1:  _____ Date: 7-24-03

Witness 2:  _____ Date: 7-24-03

Inventor 3: _____ Date: _____
William Richard Delano

Witness 1: _____ Date: _____

Witness 2: _____ Date: _____

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William Neil Anderson

Witness 1: _____ Date: _____

Witness 2: _____ Date: _____

Inventor 2: _____ Date: _____
Michael Steven Stanard

Witness 1: _____ Date: _____

Witness 2: _____ Date: _____

Inventor 3: William R. Delano Date: 7/30/03
William Richard Delano

Witness 1: A. M. Henschitt Date: 7-30-03

Witness 2: Hazel Henschitt Date: 7/30/03