

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Alan Robert MacDougall</td><td>07/28/2008</td></tr><tr><td>Brian Patrick Costello</td><td>07/24/2008</td></tr></tbody></table>	Name	Execution Date	Alan Robert MacDougall	07/28/2008	Brian Patrick Costello	07/24/2008	
Name	Execution Date						
Alan Robert MacDougall	07/28/2008						
Brian Patrick Costello	07/24/2008						
RECEIVING PARTY DATA							
Name:	Tyco Electronics Corporation						
Street Address:	1050 Westlakes Drive						
City:	Berwyn						
State/Country:	PENNSYLVANIA						
Postal Code:	19312						
PROPERTY NUMBERS Total: 1							
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12181976</td></tr></tbody></table>	Property Type	Number	Application Number:	12181976			
Property Type	Number						
Application Number:	12181976						
CORRESPONDENCE DATA							
Fax Number:	(302)633-2776						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
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Correspondent Name:	ROBERT J. KAPALKA TYCO TECHNOLOGY RESOUR						
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ATTORNEY DOCKET NUMBER:	E-CC-00738 (958-2307)						
NAME OF SUBMITTER:	Charles H. Livingston						
Total Attachments: 4 source=E-CC-00738Assignment29JUL2008#page1.tif source=E-CC-00738Assignment29JUL2008#page2.tif							

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ASSIGNMENT

I/We, **ALAN ROBERT MacDOUGALL** of 13045 SW Caspian Court, Beaverton, OR 97008 and **BRIAN PATRICK COSTELLO** of 617 Coast Range Drive, Scotts Valley, CA 95086, 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 ASSEMBLY WITH LIGHT EMITTING ELEMENT

which application was executed by the inventors on the date of execution of this assignment, and is identified by Attorney Docket No. E-CC-00738 (958-2307) and Tyco Electronics Corporation whose address is 1050 Westlakes Drive, Berwyn, PA 19312 and which, together with its successors and assigns is hereinafter called "Assignee," is desirous of acquiring title, rights, benefits and privileges hereinafter recited, and of confirming the same or any part thereof heretofore acquired by Assignee.

NOW, THEREFORE, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we hereby, 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 our name(s) or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;

3. Authorize and request the Commissioner of Patents of the United States of America and the empowered officials of all other 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 we have not knowingly conveyed to others any right in said inventions, discoveries, applications or patents 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 we have good right to assign the same to Assignee without encumbrance;

5. Bind our heirs and legal representatives, as well as ourselves, to do, upon Assignee's request and at its expense, but without additional consideration to us 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/us or my/our 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 us 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 our control or in the control of our heirs or legal representatives and which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

The effective date of this instrument is the latest date accompanying signature(s), hereinbelow.

IN TESTIMONY WHEREOF, we have affixed our signature(s).

 (Witness) 7/29/04 (Date) Alan Robert MacDougall (Date) 7-28-08

(Witness) (Date) BRIAN PATRICK COSTELLO (Date)

ASSIGNMENT

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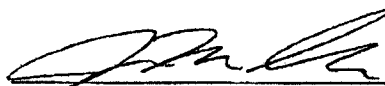
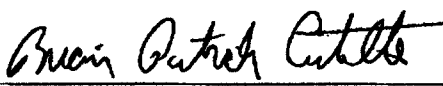
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(Witness)	(Date)	ALAN ROBERT MacDOUGALL	(Date)
	7/24/08		7/24/08
(Witness)	(Date)	BRIAN PATRICK COSTELLO	(Date)