

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Rayspan Corporation	07/31/2013
RECEIVING PARTY DATA	
Name:	Tyco Electronics Services GMBH
Street Address:	Rheinstrasse 20
City:	CH-8200 Schaffhausen
State/Country:	SWITZERLAND
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13038450
CORRESPONDENCE DATA	
Fax Number:	6057911857
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	612-373-6900
Email:	Request@slwip.com
Correspondent Name:	Schwegman, Lundberg & Woessner, P.A.
Address Line 1:	P.O. Box 2938
Address Line 4:	Minneapolis, MINNESOTA 55402-0938
ATTORNEY DOCKET NUMBER:	3404.012US1
NAME OF SUBMITTER:	Michelle Voth
Signature:	/Michelle Voth/
Date:	08/28/2013
Total Attachments: 7 source=3404012US1_Assignment#page1.tif source=3404012US1_Assignment#page2.tif	

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source=3404012US1\_Assignment#page7.tif

RECORDATION FORM COVER SHEET  
PATENTS ONLY

Atty Ref/Docket No.: 3404.012US1

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Rayspan Corporation

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement ☐ Change of Name

☐ Other

Execution Date: July 31, 2013

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

Name: Tyco Electronics Services GMBH

Street Address: Rheinstrasse 20

City: CH-8200 Schaffhausen

Country: Switzerland

Additional name(s) & address(es) attached? ☐ Yes ☒ No

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)

B. Patent No.(s)

Serial No. 13/038,450, filed March 2, 2011

Additional numbers attached? ☐ Yes ☒ No

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

Name: Timothy J. Christman

Address:

Schwegman, Lundberg & Woessner, P.A.

P.O. Box 2938

Minneapolis, MN 55402--0938

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):\$ 40.00

☐ Enclosed

☒ Authorized to be charged to deposit account  
19-0743

8. Please charge any additional fees or credit any over payments to our Deposit Account No.: 19-0743

**DO NOT USE THIS SPACE**

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.

Timothy J. Christman/Reg. No. 59,481

Name of Person Signing



Signature

August 28, 2013

Date

Total number of pages including cover sheet: 7

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks

Mail Stop Assignment Recordation Services

P.O. Box 1450

Alexandria, VA 22313-1450

**PATENT**  
**REEL: 031100 FRAME: 0778**

## **ASSIGNMENT NUNC PRO TUNC**

WHEREAS, Rayspan Corporation, a corporation organized and existing under and by virtue of the laws of the State of Delaware as of the Effective Date of this agreement, and having an office and place of business at 11975 El Camino Real, Suite 301, San Diego, CA 92130 (hereinafter "Assignor"), is the owner of a United States Patent Application having Ser. No. 13/038,450, filed March 2, 2011, titled "MULTI-FUNCTIONAL CRLH ANTENNA DEVICE";

AND WHEREAS, Tyco Electronics Services GmbH, a corporation organized and existing under and by virtue of the laws of Switzerland and having an office and place of business at Rheinstrasse 20, CH-8200 Schaffhausen (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to the one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention") described in the above-identified application and any patent to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, the Assignor does hereby:

CONVEY, ASSIGN, AND TRANSFER to the Assignee the Assignor's entire right, title, and interest for the United States and all foreign countries and jurisdictions in and to:

the Invention which is disclosed in the above-identified application;

such application, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such Invention (including any application for a utility model or an innovation patent application);

all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of such Invention;

including the right to claim priority to the above-identified patent application in relation to subject matter based in whole or in part on the above-identified patent application and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the above-identified patent application and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such Invention to the Assignee;

AUTHORIZE AND REQUEST that any attorney associated with U.S. Patent and Trademark Office (USPTO) Customer No. 14360 may (directly or through his/her designee) delete, insert, or alter any information related to the above-identified patent application or any of the foregoing, after execution of this Assignment;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or shall be made to others by the Assignor, and that the full right to convey the same as herein expressed is possessed by the Assignor;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the Assignor shall (1) execute all provisional, non-provisional, divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other patent applications for the Invention; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers for the Invention; (3) communicate to the Assignee all facts known to the Assignor relating to the Invention and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for the Invention; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such Invention in the Assignee, or for securing, maintaining and enforcing proper patent protection for the Invention; and

COVENANT, that should any provision of this agreement be held unenforceable by an authority of competent jurisdiction, such a ruling shall not affect the validity and enforceability of the remaining provisions. To the extent that any such provision is found to be unenforceable, the Assignor, when requested and without compensation shall act in good faith to substitute for such

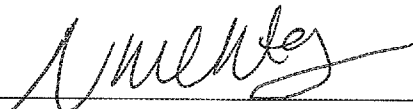
provision a new provision with content and purpose as close as possible to the provision deemed unenforceable.

THIS AGREEMENT IS TO BE BINDING on the assigns, representatives, and successors of the Assignor, and is to extend to the benefit of the successors, assigns, and nominees of the Assignee; and

THIS AGREEMENT IS MADE AND ENTERED INTO *NUNC PRO TUNC* EFFECTIVE AS OF MARCH 19, 2011 (the "Effective Date"), BY AND BETWEEN THE ASSIGNOR AND THE ASSIGNEE.

Authorization of Assignment by Assignor:

Rayspan Corporation

Signature: 

Printed Name: Mr. Nish Mehta

Title: President/CFO

Date: 7/31/2013

Acceptance of Assignment by Assignee:

Tyco Electronics Services GmbH

Signature: \_\_\_\_\_

Printed Name: Mr. Driscoll A. Nina

Title: \_\_\_\_\_

Date: \_\_\_\_\_

**ASSIGNMENT *NUNC PRO TUNC***

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the Invention which is disclosed in the above-identified application;

such application, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such Invention (including any application for a utility model or an innovation patent application);

all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of such Invention;

including the right to claim priority to the above-identified patent application in relation to subject matter based in whole or in part on the above-identified patent application and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the above-identified patent application and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such Invention to the Assignee;

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provision a new provision with content and purpose as close as possible to the provision deemed unenforceable.

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Authorization of Assignment by Assignor:

Rayspan Corporation

Signature: \_\_\_\_\_

Printed Name: Mr. Nish Mehta

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Acceptance of Assignment by Assignee:

Tyco Electronics Services GmbH

Signature:  \_\_\_\_\_

Printed Name: Mr. Driscoll A. Nina

Title: Member of Management

Date: 12.05.2013