# RECORDATION FORM COVER SHEET PATENTS ONLY

Atty Ref/Docket No.: 3169.023US1	Detect and Total Code
	Patent and Trademark Offic
To the Director of the U.S. Patent and Trademark Office: Ple	ase record the attached original documents or copy thereof.
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):
Sunil Kumar Rajgopal, Ajay Gummalla, Cheng Jung Lee, Vaneet Pathak	Name: Rayspan Corporation
	Street Address: 11975 El Camino Real
	Suite 301
Additional name(s) of conveying party(ies) attached?	City: San Diego State: CA Zip: 92130
[ ]Yes [X]No	Country: United States of America
3. Nature of conveyance:	Additional name(s) & address(es) attached? [ ]Yes [X]No
[X] Assignment [ ] Merger	
[ ] Security Agreement[ ] Change of Name	
[ ] Other	
Execution Date: February 1, 2011, January 31, 2011.  January 31, 2011, January 28, 2011	
4. Application number(s) or patent number(s):	
If this document is being filed together with a new application	i, 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 [X]No	
5 None and address of such as the same	6. Total number of applications and patents involved: 1
<ol> <li>Name and address of party to whom correspondence concerning document should be mailed;</li> </ol>	7. Total fee (37 CFR 3.41):\$ 40.00
Name: Sandra L. Godsey	[]Enclosed
Address:	[X]Authorized to be charged to deposit account
Schwegman, Lundberg & Woessner, P.A.	19-0743
P.O. Box 2938	8. Please charge any additional fees or credit any over
Minneapolis, MN 554020938	payments to our Deposit Account No.: 19-0743
DO NOT USE	THIS SPACE
<ol> <li>Statement and signature.</li> <li>To the best of my knowledge and belief, the foregoing inform of the original document.</li> </ol>	ation is true and correct and any attached copy is a true copy
or the original document.	
Sandra L. Godsey/Rcg. No. 42,589	ra L. Godsey March 4, 201:
Name of Person Signing	Signature / Date

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: 025950 FRAME: 0851

Total number of pages including cover sheet: 13

Attorncy Docket No. 3169.023US1

## ASSIGNMENT

WHEREAS, We, Sunil Kumar Rajgopal, residing at 4828 Art Street, Apt #5, San Diego, CA 92115, and Ajay Gummalla, residing at 12920 Carmel Creek Rd, Unit 30, San Diego, CA 92130, and Cheng Jung Lee, residing at 3887 Pell Pl. Unit #434, San Diego, CA 92130, and Vaneet Pathak, residing at 2723 Escala Circle, San Diego, CA 92108, made certain new and useful inventions and improvements which are described in an application for U.S. Letters Patent entitled MULTI-FUNCTIONAL CRLH ANTENNA DEVICE;

WHEREAS, We hereby authorize and request the attorneys, representing Rayspan Corporation on this application, at Schwegman, Lundberg & Woessner, P.A., located at 121 South Eighth Street, Suite 1600, Minneapolis, MN 55402, to insert here in parentheses (Ser. No. 13/038,450 ; Filing Date: March 2, 2011 ) the filing date and application number of said application when known.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned do hereby:

SELL, ASSIGN AND TRANSFER to Rayspan Corporation (the "Assignee"), a corporation of the State of <u>DE</u>, having a place of business at <u>11975 El Camino Real</u>, <u>Suite 301</u>, <u>San Diego</u>, <u>CA 92130</u>, the entire right, title and interest for the United States and all foreign countries in and to: any and all inventions and improvements which are disclosed in the identified application for U.S. Letters Patent, and which may be further identified below; such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries on any of such inventions and/or improvements (including any applications for utility models); all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such inventions and/or improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and to claim priority based on the identified application;

AUTHORIZE AND REQUEST that any attorney associated with U.S. PTO Customer No. 21186 may (directly or through his/her designee) delete, insert, or alter any information identifying this application, or any related application, below, after execution of this Assignment;

## Additional Application Information

U.S. Provisional Application Serial No. 61/310,220, filed on March 3, 2010.

No International or foreign claim for priority is being made at this time.

Docket No: 3169.023US1

ASSIGNMENT

Assignors: Sunil Kumar Rajgopal et al.

Title: MULTI-FUNCTIONAL CRLH ANTENNA DEVICE

Page 2 of 6

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

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

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 undersigned will (1) execute all provisional, non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements 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 such improvements; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such improvements in the Assignee, or for securing, maintaining and enforcing proper patent protection for such improvements;

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

AGREED as of the date of my signature below:

ASSIGNMENT Assignors: Sunil Kumar Rajgopal et al. Title: MULTI-FUNCTIONAL CRLII ANTENNA DEVICE Page 3 of 6	Docker No: 3169.023US1
Inventor: 1:	
(Signature): Sunil Kumar Rajgopal	140 Angurusi 141 - 141 Angurusi 141 - 141 Angurusi 141 - 141 Angurusi
Name: Sunil Kumar Rajg	opal
Date: 02/01/2011	
STATE OF CALIFORNIA)	
COUNTY OF	ے
On this, day of	, 2011 before me,
	sonally appeared Sunil Kumar Rajgopal, 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 t	hat he executed the same in his authorized capacity,
and that by his signature on the instrument the	ne person, or the entity upon behalf of which the
person acted, executed the instrument.	
I certify under PENALTY OF PERJ the foregoing paragraph is true and correct.	URY under the laws of the State of California that
WITNESS my hand and official s	seal.
1000.4.1	
[SEAL]	
	Notary Public

ASSIGNMENT Assignors: Sunil Kumar Rajgopal et al.	Docket No: 3169.023USI
Title: MULTI-FUNCTIONAL CRLH ANTENNA DEVIC	CE
Page 4 of 6	
Inventor: 2:	
(Signature): Ajay Gummalla	v Gummana Bi u na namadananggiftara maj çalif 7 11 .0000
Name: Ajay Gummalla	
Date: 1/31/2011	
STATE OF CALIFORNIA)	
COUNTY OF	_)
On this, day of	, 2011 bcfore me,
, pe	ersonally appeared Ajay Gumnalla, who proved to me
on the basis of satisfactory evidence to be t	he 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 perso	on, or the entity upon behalf of which the person acted,
executed the instrument.	•
I certify under PENALTY OF PER the foregoing paragraph is true and correct.	JURY under the laws of the State of California that
WITNESS my hand and official	scal.
•	
[SEAL]	
	Notary Public

ASSIGNMENT

Docket No: 3169.023US1

Assignors: Sunil Kumar Rajgopal et al. Title: MULTI-PUNCTIONAL CRLH ANTI Page 5 of 6	NNA DEVICE
Inventor: 3:	
(Signature): Cheng-Jung Le	Copinds sound on Compouring cop  On an China Joint Control and an annual control and contr
Name: Cheng	ung Lee
Date: 01/31/2011	<del></del> _
STATE OF CALIFORNIA)	
COUNTY OF	)
On this, day o	f, 2011 before me,
***************************************	, personally appeared Cheng Jung Lee, who proved to m
on the basis of satisfactory evide	cc to be the person whose name is subscribed to the within
instrument and acknowledged to	ne that he executed the same in his authorized capacity, and the
by his signature on the instrumen	the person, or the entity upon behalf of which the person acted
executed the instrument.	
I certify under PENALT the foregoing paragraph is true as	OF PERJURY under the laws of the State of California that decorrect.
WITNESS my hand an	official seal.
[SEAL]	
[	Notary Public

ASSIGNMENT Assignors: Sunil Kumar Rajgopal et al. Title: MULTI-FUNCTIONAL CRUH ANTENNA DEVIC Page 6 of 6	Docket No: 3169.023US1
Inventor: 4:	
(Signature): Name: Vancet Pathak	
Date:	
STATE OF CALIFORNIA)	
COUNTY OF	_)
On this, day of	
, pe	rsonally appeared Vancet Pathak, who proved to me
on the basis of satisfactory evidence to be the	ne 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 perso	n, or the entity upon behalf of which the person acted,
executed the instrument.	
I certify under PENALTY OF PER the foregoing paragraph is true and correct.	JURY under the laws of the State of California that
WITNESS my hand and official	seal.
[SEAL]	
Free name a name.	Notary Public

Attorney Docket No. 3169.023US1

### ASSIGNMENT

WHEREAS, We, Sunil Kumar Rajgopal, residing at 4828 Art Street, Apt #5, San Diego, CA 92115, and Ajay Gummalla, residing at 12920 Carmel Creek Rd, Unit 30, San Diego, CA 92130, and Cheng Jung Lee, residing at 3887 Pell Pl. Unit #434, San Diego, CA 92130, and Vaneet Pathak, residing at 2723 Escala Circle, San Diego, CA 92108; made certain new and useful inventions and improvements which are described in an application for U.S. Letters Patent entitled MULTI-FUNCTIONAL CRLH ANTENNA DEVICE;

WHEREAS, We hereby authorize and request the attorneys, representing Rayspan Corporation on this application, at Schwegman, Lundberg & Woessner, P.A., located at 121 South Eighth Street, Suite 1600, Minneapolis, MN 55402, to insert here in parentheses (Ser. No. 13/038450; Filing Date: 03/03/2011) the filing date and application number of said application when known.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned do hereby:

SELL, ASSIGN AND TRANSFER to Rayspan Corporation (the "Assignee"), a corporation of the State of <u>DE</u>, having a place of business at <u>11975 El Camino Real</u>, <u>Suite 301</u>, <u>San Diego</u>, <u>CA 92130</u>, the entire right, title and interest for the United States and all foreign countries in and to: any and all inventions and improvements which are disclosed in the identified application for U.S. Letters Patent, and which may be further identified below; such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries on any of such inventions and/or improvements (including any applications for utility models); all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such inventions and/or improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and to claim priority based on the identified application;

AUTHORIZE AND REQUEST that any attorney associated with U.S. PTO Customer No. 21186 may (directly or through his/her designee) delete, insert, or alter any information identifying this application, or any related application, below, after execution of this Assignment;

### Additional Application Information

U.S. Provisional Application Serial No. 61/310.220, filed on March 3, 2010.

No International or foreign claim for priority is being made at this time.

ASSIGNMENT
Assignors: Sunit Kumar Rajgopal et al.
Title: MULTI-FUNCTIONAL CRLH ANTENNA DEVICE
Page 2 of 6

Docket No: 3169,023US1

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

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

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 undersigned will (1) execute all provisional, non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements 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 such improvements; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such improvements in the Assignee, or for securing, maintaining and enforcing proper patent protection for such improvements;

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

AGREED as of the date of my signature below:

ASSIGNMENT Assignors: Sunil Kumar Rajgopal et al. Title: MULTI-FUNCTIONAL CRLH ANTENNA DEVIC Page 3 of 6	Docket No. 3169.023US1
Inventor: 1:	
(Signature): Name: Sunil Kumar Raj	gopal
Date:	
STATE OF CALIFORNIA)	
COUNTY OF	_)
On this, day of	
, pe	rsonally appeared Sunil Kumar Raigopal, who proved
to me on the basis of satisfactory evidence t	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.	
I certify under PENALTY OF PER. the foregoing paragraph is true and correct.	JURY under the laws of the State of California that
WITNESS my hand and official	seal.
[SEAL]	
	Notary Public

ASSIGNMENT Docket No: 3169.023US1 Assignors: Sunil Kumar Rajgopal et al.
Title: MULTI-FUNCTIONAL CRLH ANTENNA DEVICE Inventor: 2: (Signature):\_\_\_\_ Name: Ajay Gummalla STATE OF CALIFORNIA) COUNTY OF \_\_\_\_\_\_) On this \_\_\_\_\_, day of \_\_\_\_\_, 2011 before me, \_\_\_\_, personally appeared <u>Λίαν Gummalla</u>, 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. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct. WITNESS my hand and official seal.

SCHWEGMAN, LUNDBERG, WOES

Ø 012/014\_\_\_\_\_

03/08/11 09:46 FAX 6123393061

[SEAL]

PATENT REEL: 025950 FRAME: 0861

Notary Public

ASSIGNMENT	Docket No: 3169.023US1
Assignors: Sunil Kumar Rajgopal et al. Title: MULTI-FUNCTIONAL CRLH ANTENNA DEVI	CE
Page 5 of 6	A
Inventor: 3:	
(Signature): Name: Cheng Jung Lee	
Name: Cheng Jung Lee	
Deter	
Date:	
OT . WO OF O	
STATE OF CALIFORNIA)	
COUNTY OF	)
On this, day of	, 2011 before me,
, p	ersonally appeared Cheng Jung Lcc, who proved to me
	the person whose name is subscribed to the within
	c executed the same in his authorized capacity, and that
	on, or the entity upon behalf of which the person acted,
executed the instrument.	
the foregoing paragraph is true and correct	GURY under the laws of the State of California that
the foregoing paragraph is true and correct	•
WITNESS my hand and official	l seal.
·	
[SEAL]	
[mar and	
	Notary Public

Docket No: 3169,023USI

ASSIGNMENT

Assignors: Sunil Kumer Rajgopal et al.
Title: MULTI-FUNCTIONAL CRLH ANTENNA DEVICE

Page 6 of 6

Inventor: 4:

STATE OF CALIFORNIA)

COUNTY OF San Diego

On this 28th, day of January, 2011 before me,

Elyce Marie Martinez, personally appeared Vaneet Pathak, 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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

OFFICIAL SEAL LYCE MARIE MARTINEZ IOTARY PUBLIC CALIFORNIA

[SEAL]

**PATENT REEL: 025950 FRAME: 0863** 

RECORDED: 03/08/2011