PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5283337

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the ASSIGNEE'S NAME previously recorded on Reel 021696 Frame 0647. Assignor(s) hereby confirms the CORRECTION OF ASSIGNEE FROM "REDPINE SIGNALS CORPORATION" TO "REDPINE SIGNALS, INC".

CONVEYING PARTY DATA

Name	Execution Date
PREM KIRAN NERELLA	10/06/2008
KARTHIK VAIDYANATHAN	10/06/2008
PARTHA SARATHY MURALI	10/06/2008

RECEIVING PARTY DATA

Name:	REDPINE SIGNALS, INC.	
Street Address:	2107 N. 1ST ST.	
Internal Address:	SUITE 540	
City:	SAN JOSE	
State/Country:	CALIFORNIA	
Postal Code:	95131	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12197230

CORRESPONDENCE DATA

Correspondence will be sent to	650)494-3835 the e-mail address first; if that is unsuccessful, it will be sent if that is unsuccessful, it will be sent via US Mail.	
Phone:	506195270	
Email: j	y@file-ee-patents.com	
Correspondent Name:	JAY A. CHESAVAGE	
Address Line 1:	833 MIDDLEFIELD RD.	
Address Line 4:	ALO ALTO, CALIFORNIA 94303	
ATTORNEY DOCKET NUMBER:	PAT-114-CORR	
NAME OF SUBMITTER:	JAY A. CHESAVAGE	
SIGNATURE:	/Jay A. Chesavage/	
DATE SIGNED:	12/14/2018	
Total Attachments: 11		

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Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE	:	NEW ASSIGNMENT	
NATURE OF CONVE	EYANCE:	ICE: ASSIGNMENT	
CONVEYING PARTY	Υ DATA		
		Name	Execution Date
Prem Kiran NERELL	_A		10/06/2008
Karthik VAIDYANAT	HAN		10/06/2008
Partha Sarathy MUF	RALI		10/06/2008
RECEIVING PARTY	DATA		
Name:	Redpine Signals	s, Inc.	
Street Address:	2107 N. 1st St.		
Internal Address:	Suite 680		
City:	San Jose		
State/Country:	CALIFORNIA		
Postal Code:	95131		
		Num	ber
Application Number	umber: 12197230		
CORRESPONDENC Fax Number: <i>Correspondence will</i> Phone: Email: Correspondent Name Address Line 1: Address Line 4:	(650)494-3 7 <i>be sent via US Ma</i> 650-619-52 patents@c e: Jay A. Che 3833 Middl	<i>ail when the fax attempt is unsucces</i> . 270 hesavage.com esavage	sful.
ATTORNEY DOCKE	T NUMBER:	PAT-93P	
NAME OF SUBMITT	ER:	Jay A. Chesavage	
Total Attachments: 6 source=93p_assn_ex 500678578	ec#page1.tif		PATENIT REEL: 027836 FRAME: 02847

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ASSIGNMENT UNDER 37 CFR 3.31

Whereas, the undersigned

Prem Kiran NERELLA
Karthik VAIDYANATHAN
Partha Sarathy MURALI

(hereinafter termed "Inventor"), resident of

Hyderabad, India
San Jose, CA, US
San Jose, CA, US

has invented certain new and useful improvements in

"Interpolation IIR Filter for OFDM Baseband Processing" PAT-114 s/n 12/197,230

and has executed concurrently herewith an application for a United States patent disclosing and identifying the invention; and

Redpine Signals, Inc.

WHEREAS, Redpine Signals Corporation, a corporation of the state of California, having a place of business at

2107 N. 1st St. Suite 680 San Jose, Ca. 95131

(hereinafter termed "Assignee"), is desirous of acquiring the entire right, title, and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered by said inventor (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor to have been received in full from said Assignee:

1. Said Inventor does hereby sell, assign, transfer and convey unto said Assignee, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; and (d) in and to each and every reissue or extension of any of said patents.

2. Said Inventor hereby jointly and severally covenant and agrees to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventor shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing, or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any of said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventor in providing such cooperation shall be paid for by said Assignee.

Assignment under 37 CFR 3.31 (PAT-93P 12/197,230)



3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representative, and shall be binding upon said Inventor, their respective heirs, legal representatives and assigns.

4. Said Inventor hereby warrants and represents that he has not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said inventor has executed and delivered this instrument to said Assignee this

day of	t,		
	(1)	(Inventor)	
State of		(mitomor)	
County of			
On this personally appeared	day of	, in the year	, before me the undersigned Notary Public,

 $(1)_{-}$

Known to me

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. Witness my hand and official seal.

(Notary Public)

Assignment under 37 CFR 3.31 (PAT-93P 12/197,230)



IN WITNESS WHEREOF, the said inventor has executed and delivered this instrument to said Assignee this

WH day of October, 2008
(2)_(2)
State of CALIFOLNIA (Inventor)
County of SANTA CLARA
On this 10^{M} day of $00000000000000000000000000000000000$
(2) KARTHIK VAIDYANATHAN Known to me
\mathbf{X} 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. Witness my hand and official seal.
Comoraldocaretero
(Notary Public) SARTA COUNT AND COU
IN WITNESS WHEREOF, the said inventor has executed and delivered this instrument to said Assignee this

(3) Malt (....) State of CALIFORNIA County of SANTA CLARA

On this 10^M day of OCTORE, in the year 2008, before me the undersigned Notary Public, personally appeared

(3) PARTUA SHRATHY MURALI

 \mathbf{X} Known to me **Y** Proved to me on the basis

 \mathbf{X} 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. Witness my hand and official seal.

ESMERALDA ANN CARRETERO COMM. # 1804221 NOTARY PUBLIC-CALRORING # SANTA CLANA COUNTY MY COMM. EAP. JUNE 28, 2000 T

Carneteo moral

Assignment under 37 CFR 3.31 (PAT-93P 12/197,230)



ASSIGNMENT UNDER 37 CFR 3.31

Whereas, the undersigned

1) Prem Kiran NERELLA 2) Karthik VAIDYANATHAN 3) Partha Sarathy MURALI

(hereinafter termed "Inventor"), resident of

- 1) Hyderabad, India
- 2) Bangalore, India

3) San Jose, California, US

has invented certain new and useful improvements in

" Interpolation IIR filter for OFDM Baseband Processing"

PAT-114 s/n 12/197,230

and has executed concurrently herewith an application for a United States patent disclosing and identifying the invention; and

WHEREAS, Redpine Signals Corporation, a corporation of the state of California, having a place of business at

2107 N. 1st St. Suite 680 San Jose, Ca. 95131

(hereinafter termed "Assignee"), is desirous of acquiring the entire right, title, and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered by said inventor (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor to have been received in full from said Assignee:

1. Said Inventor does hereby sell, assign, transfer and convey unto said Assignee, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; and (d) in and to each and every reissue or extension of any of said patents.

2. Said Inventor hereby jointly and severally covenant and agrees to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventor shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing, or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any of said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests,

(PAT-93P) Assignment under 37 CFR 3.31



public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventor in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representative, and shall be binding upon said Inventor, their respective heirs, legal representatives and assigns.

4. Said Inventor hereby warrants and represents that he has not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said inventor has executed and delivered this instrument to said Assignee this

6 day of OUT, ZOOB	
(1)	entor)
State of	
County of	
On this 4 day of 0 , in the personally appeared	he year 2006 , before me the undersigned Notary Public,
(1)	

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. Witness my hand and official seal.

(Notary Public)

N. Pramoala

ADVOCATE NOTARY depointed by GovL of A.P. Mills Americal, Hyderabad, A.P. India.

Assignment under 37 CFR 3.31 (PAT-93P)

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$\frac{6}{2} \operatorname{day of} \underline{\alpha_{\tau}}, \underline{z_{\alpha\beta}} $			
(ш.	/entor)		
State of			
County of			
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(2)Known to me Proved to mc on the basis of satisfactory evidence to instrument and acknowledged to me that he executed the the instrument the person or the entity upon behalf of wh hand and official seal.	be the person where the same in his auth the same in his auth the person ac	nose name is subser prized capacity and ted, executed the in	ibed to the within that by his signature on strument. Witness my
	(Notary Public)	
IN WITNESS WHEREOF, the said inventor has executed and an of	[nventor]	_	
State of	(HVCHOL)		
County of			
On this day of, in personally appeared	the year	, before me the und	ersigned Notary Public,
(3)Known to me Proved to me on the basis of satisfactory evidence instrument and acknowledged to me that he executed the instrument the person or the entity upon behalf of hand and official seal.	to be the person the same in his au which the person	whose name is subs thorized capacity as acted, executed the	scribed to the within ad that by his signature on instrument. Witness my
		(Notary Public)	N. Praniñele
		1000 C	ADVOCATE NOTARY
		4006	erpet, Hyderabad, A.P. India

Assignment under 37 CFR 3.31 (PAT-93P)

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RECORDED: 10/17/2008

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE The Commissioner of Patents and Trademarks Washington D.C. 20231

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Affidavit for Corrective Assignment under MPEP 323.01(b)

Redpine Signals, Inc. hereby asserts that it is the true owner of the following patents and patent applications

10 assigned erroneously to "Redpine Signals Corporation", as listed below:

2) Erroneous Assignee "Redpine Signals Corporation" which will be corrected to "Redpine Signals, Inc" in the 15 accompanying assignment:

s/n	Docket Number
10/795,817	PAT-0001
10/448,639	PAT-0004
11/226,620	PAT-0011
11/945,136	PAT-0016
11/825,832	PAT-0023
12/368,431	PAT-0025
12/134,215	PAT-0045
L2/145,514	PAT-0046

Affidavit for Corrective Assignment MPEP 323.01(b)

12/185,688	PAT-0050
12/134,204	PAT-0076
12/185,733	PAT-0081
12/880,095	PAT-0086C
11/731,718	PAT-0087
12/197 ,229	PAT-0093
12/324,835	PAT-0096
12/144,853	PAT-0102
12/197,230	PAT-0114
12/134,213	PAT-0115
12/197,234	PAT-0118
12/197,232	PAT-0119
12/326 , 196	PAT-0120
12/327,395	PAT-0121
12/185,648	PAT-0123
12/185,741	PAT-0124
13/114,009	PAT-0141
13/284,891	PAT-0144
13/277,782	PAT-0145
13/284,899	PAT-0146
13/278,456	PAT-0150
13/278,436	PAT-0152
13/783,277	PAT-0165
13/783,275	PAT-0167
14/176,127	PAT-0171
29/504,880	PAT-0171D
14/311,261	PAT-0172
29/504,857	PAT-0189
14/829,530	PAT-0194
14/829,550	PAT-0195

14/721,965	PAT-0196
15/485,492	PAT-0198
15/277,324	PAT-0203

Redpine Signals, Inc. asserts that it is the true owner of the above patents and patent applications.

- 5 12/13/2018 Bn

by Mallik Reddy

Date

Sc. Executive VP

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Redpine Signals, Inc

Affidavit for Corrective Assignment MPEP 323.01(b)

RECORDED: 12/14/2018