

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3691893

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
PAUL REED SMITH GUITARS LIMITED PARTNERSHIP	11/10/2015
RECEIVING PARTY DATA	
Name:	DIGITAL HARMONIC LLC
Street Address:	380 LOG CANOE CIRCLE
City:	STEVENSVILLE
State/Country:	MARYLAND
Postal Code:	21666
PROPERTY NUMBERS Total: 10	
Property Type	Number
Patent Number:	6766288
Patent Number:	6798886
Patent Number:	6947177
Patent Number:	7003120
Patent Number:	8620976
Patent Number:	8873821
Application Number:	13509420
Application Number:	13509427
Application Number:	14137175
Application Number:	14523608
CORRESPONDENCE DATA	
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ATTORNEY DOCKET NUMBER:	3749.0000000

NAME OF SUBMITTER:	/DONALD J. FEATHERSTONE/
SIGNATURE:	/Donald J. Featherstone, 33,876/
DATE SIGNED:	01/12/2016
Total Attachments: 3 source=3749prs2dh#page1.tif source=3749prs2dh#page2.tif source=3749prs2dh#page3.tif	

Confirmatory Assignment

Paul Reed Smith Guitars Limited Partnership, a limited partnership and existing under the laws of Maryland and having an office and place of business at 380 Log Canoe Circle, Stevensville, Maryland 21666 (hereafter referred to as the "Assignor"), and **Digital Harmonic LLC**, a limited liability corporation formed under the laws of Maryland, having an office and place of business at 380 Log Canoe Circle, Stevensville, Maryland 21666 (hereafter referred to as the "Assignee"), subject to a Private Placement Memorandum having an effective date of September 15, 2015.

Assignor assigned and transferred to Assignee, on September 15, 2015, all right, title, and interest in and to certain inventions, patents, and applications (the "Assigned Inventions"), including the patents and patent applications set forth in Schedule A attached hereto.

The parties need this document so that it can be recorded to demonstrate the assignment of the Assigned Inventions, including the patents and applications set forth above.

NOW, THEREFORE, for good and valuable consideration, Assignor does hereby confirm that Assignor assigned and transferred to Assignee, its representatives, successors, and assigns, its entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, in the United States and throughout the world, (a) in the Assigned Inventions, in any and all applications thereon, and in any and all Letters Patent(s) therefor, and (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications

Confirmatory Assignment

therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable; all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The Assignor hereby grants the patent practitioners associated with CUSTOMER NUMBER 26111 the power to insert in this assignment, including the attached Schedule A, any further information regarding the patents and patent applications so identified in Schedule A that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

SIGNED on behalf of the said ASSIGNOR,

PAUL REED SMITH GUITARS LIMITED PARTNERSHIP
PAUL REED SMITH MANAGEMENT LLC

By: 

Name: Paul Reed Smith

Title: Managing & Sole Member

Date: NOV 10, 2015

Schedule A

Docket Number	Country	Title	Application Number	Publication Number	Patent Number
3749.003EP01	EPC	METHOD OF MODIFYING HARMONIC CONTENT OF A COMPLEX WAVEFORM	99956737.3	1125272	1125272
3749.003EP03	EPC	FAST FIND FUNDAMENTAL METHOD	99961536.2	1125273	1125273
3749.003JP01	Japan	METHOD OF MODIFYING HARMONIC CONTENT OF A COMPLEX WAVEFORM	2000-580198	2002-529773	5113307
3749.004JP03	Japan	DOMAIN IDENTIFICATION AND SEPARATION FOR PRECISION MEASUREMENT OF WAVEFORMS	2012-538968	2013-511045	5560346
3749.004JP04	Japan	A PRECISION MEASUREMENT OF WAVEFORMS USING DECONVOLUTION AND WINDOWING	2012-538975	2013-511071	5706910
3749.004RU00	Russian Federation	PRECISION MEASUREMENT OF WAVEFORMS	2011119089	2011119089	2526889
3749.0030003	United States	FAST FIND FUNDAMENTAL METHOD	09/430,295		6,766,288
3749.0030004	United States	METHOD OF SIGNAL SHREDDING	09/481,609		6,798,886
3749.0690001	United States	METHOD OF COLOR ACCENTUATION	10/362,198	2004-0105105	6,947,177
3749.0030001	United States	METHOD OF MODIFYING HARMONIC CONTENT OF A COMPLEX WAVEFORM	09/430,293		7,003,120
3749.0040005	United States	PRECISION MEASUREMENT OF WAVEFORMS	13/105,081	2012-0041994	8,620,976
3749.0660000	United States	SCORING AND ADJUSTING PIXELS BASED ON NEIGHBORHOOD RELATIONSHIPS FOR REVEALING DATA IN IMAGES	13/425,240	2013-0251223	8,873,821
3749.004CA00	Canada	PRECISION MEASUREMENT OF WAVEFORMS	2,743,613	2,743,613	
3749.004CN00	China P.R.	PRECISION MEASUREMENT OF WAVEFORMS	200980145770.2	102695958	
3749.004CN04	China P.R.	A PRECISION MEASUREMENT OF WAVEFORMS USING DECONVOLUTION AND WINDOWING	201080058046.9	CN102667501A	
3749.004CN03	China P.R.	DOMAIN IDENTIFICATION AND SEPARATION FOR PRECISION MEASUREMENT OF WAVEFORMS	201080058037.X	102770856	
3749.066CN00	China P.R.	SCORING AND ADJUSTING PIXELS BASED ON NEIGHBORHOOD RELATIONSHIPS FOR REVEALING DATA IN IMAGES	201380022160.X	CN104380340	
3749.004EP00	EPC	PRECISION MEASUREMENT OF WAVEFORMS	09851007.6	2391895	
3749.004EP03	EPC	DOMAIN IDENTIFICATION AND SEPARATION FOR PRECISION MEASUREMENT OF WAVEFORMS	10830703.4		
3749.004EP04	EPC	A PRECISION MEASUREMENT OF WAVEFORMS USING DECONVOLUTION AND WINDOWING	10830712.5	2499504	
3749.066EP00	EPC	SCORING AND ADJUSTING PIXELS BASED ON NEIGHBORHOOD RELATIONSHIPS FOR REVEALING DATA IN IMAGES	13715795.4	2828824	
3749.004IN00	India	PRECISION MEASUREMENT OF WAVEFORMS	931/MUMNP/2011	06/2012	
3749.066IL00	Israel	SCORING AND ADJUSTING PIXELS BASED ON NEIGHBORHOOD RELATIONSHIPS FOR REVEALING DATA IN IMAGES	234738	234738	
3749.004JP00	Japan	PRECISION MEASUREMENT OF WAVEFORMS	2012-532058	2013-506145	
3749.066JP00	Japan	SCORING AND ADJUSTING PIXELS BASED ON NEIGHBORHOOD RELATIONSHIPS FOR REVEALING DATA IN IMAGES	2015-501746		
3749.001PC01	PCT	MEASURING WAVEFORMS WITH THE DIGITAL INFINITE EXPONENTIAL TRANSFORM	PCT/US2015/056042		
3749.004KR00	South Korea	PRECISION MEASUREMENT OF WAVEFORMS	2011-7010853	10-2012-0094415	
3749.0040003	United States	DOMAIN IDENTIFICATION AND SEPARATION FOR PRECISION MEASUREMENT OF WAVEFORMS	13/509,420	2013-0191062	
3749.0040004	United States	A PRECISION MEASUREMENT OF WAVEFORMS USING DECONVOLUTION AND WINDOWING	13/509,427	2013-0046805	
3749.0040006	United States	PRECISION MEASUREMENT OF WAVEFORMS	14/137,175	2014-0351302	
3749.0660001	United States	SCORING AND ADJUSTING PIXELS BASED ON NEIGHBORHOOD RELATIONSHIPS FOR REVEALING DATA IN IMAGES	14/523,608	2015-0199796	
3749.0660002	United States	SCORING AND ADJUSTING PIXELS BASED ON NEIGHBORHOOD RELATIONSHIPS FOR REVEALING DATA IN IMAGES	14/676,507		
3749.0010001	United States	MEASURING WAVEFORMS WITH THE DIGITAL INFINITE EXPONENTIAL TRANSFORM	14/885,693		
3749.1510002	United States	COMPLEX HARMONIC AND INHARMONICITY TUNING GENERATOR FOR CELLS, VIRUSES AND	62/237,178		