

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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>Peter R Lupini</td> <td>12/20/2012</td> </tr> <tr> <td>Glen A Rutledge</td> <td>12/20/2012</td> </tr> <tr> <td>Norm Campbell</td> <td>12/20/2012</td> </tr> </tbody> </table>		Name	Execution Date	Peter R Lupini	12/20/2012	Glen A Rutledge	12/20/2012	Norm Campbell	12/20/2012
Name	Execution Date								
Peter R Lupini	12/20/2012								
Glen A Rutledge	12/20/2012								
Norm Campbell	12/20/2012								
RECEIVING PARTY DATA									
Name:	Harman International Industries, Inc.								
Street Address:	400 Atlantic Street								
City:	Stamford								
State/Country:	CONNECTICUT								
Postal Code:	06901								
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>13723521</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13723521				
Property Type	Number								
Application Number:	13723521								
CORRESPONDENCE DATA									
Fax Number:	2483583351								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	2483584400								
Email:	tgood@brookskushman.com								
Correspondent Name:	Brooks Kushman P.C.								
Address Line 1:	1000 Town Center								
Address Line 2:	Twenty-Second Floor								
Address Line 4:	Southfield, MICHIGAN 48075-1238								
ATTORNEY DOCKET NUMBER:	HARM0103PUS								
NAME OF SUBMITTER:	David S. Bir								
This document serves as an Oath/Declaration (37 CFR 1.63).									
Total Attachments: 2 source=assignmentdeclaration#page1.tif source=assignmentdeclaration#page2.tif									

CH \$40.00 13723521

**ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN  
APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)**

**Title of Invention**      **DYNAMICALLY ADAPTED PITCH CORRECTION BASED ON AUDIO INPUT**

As a below named inventor, I hereby declare that:

This declaration is directed to:

- The attached application, or
- United States application or PCT international application number  
13/723,521 filed on December 21, 2012 (I hereby authorize the  
insertion of the application filing date and number when they become known.)

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims.

I am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I do hereby assign, sell and set over to Harman International Industries, Inc., a corporation organized and existing under the laws of the state or country of Delaware, and having a place of business at 400 Atlantic Street, Stamford, CT 06901, hereinafter referred to as the ASSIGNEE, its successors, assigns or other legal representatives, my entire right, title and interest, domestic and foreign, in and to the inventions and discoveries in the above-identified application including the right of said ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Letters Patent for said inventions and discoveries in any and all foreign countries in its or their own name or names, or in my name, at its or their election, and I hereby assign, sell and set over to said ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, including any provisional applications, in and to said inventions and discoveries in all countries, including all applications claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, reexaminations and reissue applications.

And I hereby agree for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including applications for Letters Patent of any and all kinds and in any and all countries and to perform any and all acts which said ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure thereto the rights herein assigned, sold and set over.

And I hereby represent and warrant that I have not granted any rights inconsistent with the rights granted herein.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years or both.

LEGAL NAME OF INVENTOR

Inventor: Peter R. Lupini Date: December 20, 2012

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

Page 1 of 2 (Supplemental Sheet with Additional Joint Inventors is attached if necessary)

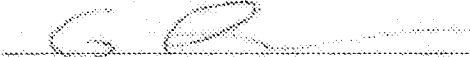
Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

SUPPLEMENTAL SHEET FOR ASSIGNMENT AND  
DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN  
APPLICATION USING AN APPLICATION DATA SHEET  
(37 C.F.R. 1.76)

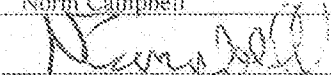
Additional Inventors  
Page \_\_\_\_\_ of \_\_\_\_\_

Title of Invention: DYNAMICALLY ADAPTED PITCH CORRECTION BASED ON AUDIO INPUT

Legal Name of Additional Joint Inventor:

Inventor: Glen A. Rutledge Date: December 20, 2012  
Signature: 

Legal Name of Additional Joint Inventor:

Inventor: Norm Campbell Date: December 20, 2012  
Signature: 

Legal Name of Additional Joint Inventor:

Inventor: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature: \_\_\_\_\_

Legal Name of Additional Joint Inventor:

Inventor: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature: \_\_\_\_\_

Legal Name of Additional Joint Inventor:

Inventor: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature: \_\_\_\_\_

Legal Name of Additional Joint Inventor:

Inventor: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature: \_\_\_\_\_