### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6168975

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
RILEY WINTON	05/13/2020
CHRISTOPHER LUDWIG	06/23/2020
BRIAN STERLING	05/13/2020
ARNDT HENSGENS	05/14/2020

#### **RECEIVING PARTY DATA**

Name:	HARMAN INTERNATIONAL INDUSTRIES, INCORPORATED
Street Address:	400 ATLANTIC STREET
Internal Address:	15TH FLOOR
City:	STAMFORD
State/Country:	CONNECTICUT
Postal Code:	06901

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16957440

#### **CORRESPONDENCE DATA**

**Fax Number:** (248)358-3351

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Email:cflood@brookskushman.comCorrespondent Name:BROOKS KUSHMAN P.C.Address Line 1:1000 TOWN CENTERAddress Line 2:TWENTY-SECOND FLOORAddress Line 4:SOUTHFIELD, MICHIGAN 48076

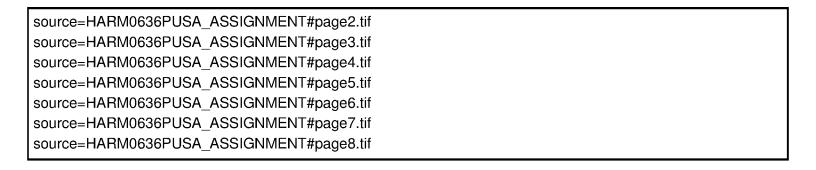
ATTORNEY DOCKET NUMBER:	HARM0636PUSA
NAME OF SUBMITTER:	MARTIN J. SULTANA
SIGNATURE:	/Martin J. Sultana/
DATE SIGNED:	06/24/2020

**Total Attachments: 8** 

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PATENT REEL: 053024 FRAME: 0464

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I	Attorney Docket Number	PXX0118USWO
١		HARM 0636 PUSA

## 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)

Asymmetric Acoustical Approach for Improving the Listening Experience at a Seat in a of Seats by Upgrading a Loudspeaker Distally Located to the Seat		
As a below named inventor	or, I hereby declare that:	
This declaration is directe	d to:	
☐ The atta	ached application, or	
PCT/	States application or PCT international application number (182018/060553_filed on _December 22nd, 2018 (I hereby authorize the on of the application filing date and number when they become known.)	
The above-identified appl	ication was made or authorized to be made by me.	
I believe that I am the orig	ginal inventor or an original joint inventor of a claimed invention in the application.	
I hereby state that I have I	reviewed and understand the contents of the above-identified specification, including the claims.	
I am aware of the duty patentability as defined in	to disclose to the U.S. Patent and Trademark Office all information known to me to be material to 137 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, Incorporated (STM), 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, United States of America, 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 INVE	FNTOR	
Inventor: Riley WIN	May 13, 2020	
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.	

Attorney	PXX0118USWO
Docket Number	HARM 0636 PUSA

# 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 2

Title of Inv	ention		roach for Improving the Listening Experi a Loudspeaker Distally Located to the Se	
Legal Nan	ne of Addition	al Joint Inventor:		
Inventor:	Chris LUDWIC	j	Date:	
Signature:			_	
Legal Nan	ne of Addition	al Joint Inventor:		
Inventor:	Brian STERLIN	NG	Date:	
Signature:			_	
Legal Nan	ne of Addition	al Joint Inventor:		
Inventor:	Arndt HENSGE	ENS		
Signature:			_	

Attorney Docket Number	PXX0118USWO
•	HARM 0636 PUSA

## 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	Asymmetric Acoustical Approach for Improving the Listening Experience at a Seat in a Row of Seats by Upgrading a Loudspeaker Distally Located to the Seat
As a below named inventor	or, I hereby declare that:
This declaration is directe	d to:
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PCT/	States application or PCT international application number //B2018/060553 filed on December 22nd, 2018 (I hereby authorize the n of the application filing date and number when they become known.)
The above-identified appl	ication was made or authorized to be made by me.
I believe that I am the orig	ginal inventor or an original joint inventor of a claimed invention in the application.
I hereby state that I have 1	reviewed and understand the contents of the above-identified specification, including the claims.
I am aware of the duty patentability as defined in	to disclose to the U.S. Patent and Trademark Office all information known to me to be material to 37 C.F.R. § 1.56.
set over to Harman Inter- or country of Delaware, hereinafter referred to as domestic and foreign, in ASSIGNEE, its successor inventions and discoveries and I hereby assign, sell as including any provisional benefit of the filing date herein to the filing date herein to the filing date has a successor sold and set over.  And I hereby represent an I hereby acknowledge the	r good and valuable consideration, receipt of which is hereby acknowledged, I do hereby assign, sell and mational Industries. Incorporated (STM)_, a corporation organized and existing under the laws of the state and having a place of business at400 Atlantic Street, Stamford, CT, United States of America, 06901_, the ASSIGNEE, its successors, assigns or other legal representatives, my entire right, title and interest, and to the inventions and discoveries in the above-identified application including the right of said ors, assigns or other legal representatives to make applications and to receive Letters Patent for said in any and all foreign countries in its or their own name or names, or in my name, at its or their election, and set over to said ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, applications, in and to said inventions and discoveries in all countries, including all applications claiming hereof, continuations, continuations-in-part, divisionals, reexaminations and reissue applications.  By self, my heirs, successors, assigns or other legal representatives to execute any and all papers, including Patent of any and all kinds and in any and all countries and to perform any and all acts which said respectively. The part of the right is herein assigned, and warrant that I have not granted any rights inconsistent with the rights granted herein.  But any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or than five (5) years or both.
LEGAL NAME OF INVE	ENTOR
Inventor: Riley WIN	VTON Date:
Signature:	
Page 1 of 2 (Supplementa	al 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.

Attorney	PXX0118USWO
Docket Number	HARM 0636 PUSA

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**Title of Invention** 

Additional Inventors Page 2

Asymmetric Acoustical Approach for Improving the Listening Experience at a Seat in a

Row of Seats by Upgrading a Loudspeaker Distally Located to the Seat

Legal Nan	ne of Additional Joint Inventor:	
Inventor: Signature:	Christopfer LUDWIG	Date: A - 13
Legal Nan	ne of Additional Joint Inventor:	
Inventor:	Brian STERLING	Date:
Signature:		
Legal Nan	ne of Additional Joint Inventor:	
Inventor:	Arndt HENSGENS	Date:
Signature:		

### 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 Inventic	Asymmetric Acoustical Approach for Improving the Listening Experience at a Seat in a Row of Seats by Upgrading a Loudspeaker Distally Located to the Seat										
As a below named	mventor, I hereby declare that										
This declaration is	directed to:										
Ü	The attached application, or										
	United States application or PCT international application number <u>PCT/IB2018/060553</u> filed on <u>December 22nd, 2018</u> , (I hereby authorize the insertion of the application filing date and number when they become known.)										
The above-identify	ed 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.											
set over to Hamps or country of Dela hereinafter referred domestic and fore ASSIGNEE, its stinventions and disc and I hereby assign including any prov	RE, for good and valuable consideration, receipt of which is hereby acknowledged, I do hereby assign, sell and in International Industries, Incorporated (STM)—a corporation organized and existing under the laws of the state tware, and having a place of business at 400 Atlantic Street, Stamford, CT, United States of America, 06901—1 to us the ASSIGNEE, its successors, assigns or other legal representatives, my entire right, title and interest, ign, in and to the inventions and discoveries in the above-identified application including the right of said accessors, assigns or other legal representatives to make applications and to receive Letters Patent for said accessors, assigns or other legal representatives in its or their election, is sell and set over to said ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, isional applications, in and to said inventions and discoveries in all countries including all applications claiming date hereof, continuations, continuations—in-part, divisionals, reexaminations and reissue applications.										
applications for L	And I hereby agree for myself, my hors, 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 repre	sont and warrant that I have not granted any rights inconsistent with the rights granted herein.										
	dge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or it more than five (5) years or both.										
LEGAL NAME OF	FINVENTOR										
inventor: <u>Rili</u> Signature:	y WINTON Date:										
	emental Sheet with Additional Joint Inventors is attached if necessary)										
Nation An Application	n Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entiry made accumulate this form										

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SUPPLEMENTAL SHEET FOR ASSIGNMENT AND DECLARATION (37 C.F.R. L63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

Title of Invention

Additional Inventors Page 2

		ding a Loudspeaker Distally Located to the Seat
Legal Name	of Additional Joint Inventor:	
Inventor: (	Chris LUDWIG	Date:
Signature:		
Legal Name	of Additional Joint Inventor:	
Inventor:	lgan STERLING	Date: 13 MMY 2020
Signature: (	Sam Stay	
Legal Name	of Additional Joint Inventor:	
Inventor:/	amdi HENSGENS	Date:
Signature:		

Asymmetric Acoustical Approach for Improving the Listening Experience at a Seat in a

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I	Attorney Docket Number	PXX0118USWO
l		HARM 0636 PUSA

## 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	Asymmetric Acoustical Approach for Improving the Listening Experience at a Seat in a Row of Seats by Upgrading a Loudspeaker Distally Located to the Seat										
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set over to Harman Inte or country of Delaware hereinafter referred to as domestic and foreign, in ASSIGNEE, its success inventions and discoverie and I hereby assign, sell including any provisional benefit of the filling date	NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I do hereby assign, sell and set over to <a href="Harman International Industries">Harman International Industries</a> , Incorporated (STM), a corporation organized and existing under the laws of the state or country of <a href="Delaware">Delaware</a> , and having a place of business at <a href="400">400</a> Atlantic Street, Stamford, CT, United States of America, 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.										
applications for Letters	nyself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including Patent of any and all kinds and in any and all countries and to perform any and all acts which said rs, assigns or other legal representatives may deem necessary to secure thereto the rights herein assigned,										
And I hereby represent a	nd 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 INV	ENTOR										
Inventor: Riley WI											
Signature:											
Page 1 of 2 (Supplement	al Sheet with Additional Joint Inventors is attached if necessary)										
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Title of Inv	ention	Asymmetric Acoustical Approach for Improving the Listening Experience at a Seat in a Row of Seats by Upgrading a Loudspeaker Distally Located to the Seat									
Legal Nan	ne of Additiona	al Joint 1	Inventor:								
	Chris LUDWIG					Date:					
Signature:											
Legal Nan	ne of Additiona	al Joint !	Inventor:								
Inventor:	Brian STERLIN	IG				Date:					
Signature:											
Legal Nan	ne of Additiona	al Joint	Inventor:								
Inventor:	Arndt HENSGE	NS				Date:	14May2020				
Signature:	Hensge	ens	<del></del>								

PATENT REEL: 053024 FRAME: 0473

**RECORDED: 06/24/2020**