

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Scott M. Opie	02/04/2004
Mark E. Engebretson	02/05/2004
Yoshiyuki Takeuchi	02/05/2004
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Harman International Industries, Incorporated
<b>Street Address:</b>	8500 Balboa Boulevard
<b>City:</b>	Northridge
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	91329
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	11365795
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(312)321-4299
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Phone:</b>	312-321-4200
<b>Email:</b>	mdolinski@usebrinks.com
<b>Correspondent Name:</b>	Miyoung Shin by Michele Dolinski
<b>Address Line 1:</b>	Brinks Hofer Gilson & Lione
<b>Address Line 2:</b>	P.O. Box 10395
<b>Address Line 4:</b>	Chicgao, ILLINOIS 60610
<b>ATTORNEY DOCKET NUMBER:</b>	11336-1283 (P02047USDIV)
<b>NAME OF SUBMITTER:</b>	Miyoung Shin, Reg. No. L0249

Total Attachments: 4  
 source=11336-1283 Assignment#page1.tif

**500403303**

**PATENT**  
**REEL: 020140 FRAME: 0879**

**CH \$40.00 11365795**

source=11336-1283 Assignment#page2.tif

source=11336-1283 Assignment#page3.tif

source=11336-1283 Assignment#page4.tif

**ASSIGNMENT**

WHEREAS, Scott M. Opie, Mark E. Engebretson and Yoshiyuki Takeuchi, herein after called the "Assignors", have made the invention described in the United States patent application entitled "ARBITRARY COVERAGE ANGLE SOUND INTEGRATOR", for full description of which reference is here made to an application for Letters Patent of the United States filed on **July 1, 2003**, and assigned Application Serial No. **10/611,012**;

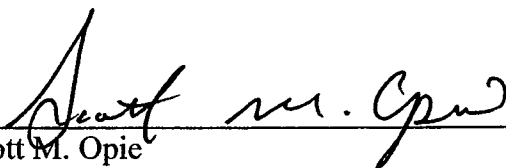
WHEREAS, **HARMAN INTERNATIONAL INDUSTRIES, INCORPORATED**, a corporation organized and existing under the laws of the State of Delaware having a place of business at 8500 Balboa Boulevard, Northridge, California 91329, hereinafter the "Assignee", is desirous of acquiring all right, title and interest in and to the invention and the patent application identified above, and in all Patents, in the United States and in any and all foreign countries which may be obtained from said invention;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents therefore in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, continuations-in-part, divisions, renewals and extensions of any of the patent applications and patents defined above; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or any such patent application or patent; and that the Assignor will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DATED: 2/4/04   
Scott M. Opie

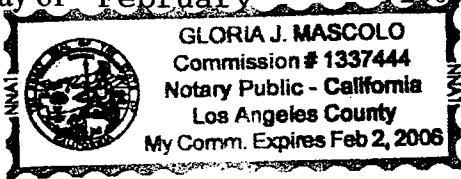
DATED: 2-5-04   
Mark E. Engebretson

DATED: 2-5-04   
Yoshiyuki Takeuchi

STATE OF California )  
 ) ss.  
COUNTY OF Los Angeles )

I, Gloria J. Mascolo a Notary Public in and for the County and State aforesaid, do hereby certify Scott M. Opie, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 4th day of February, 2004



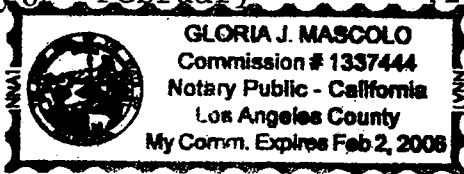
*Gloria J. Mascolo*  
Notary Public

My Commission Expires: February 2, 2006

STATE OF California )  
 ) ss.  
COUNTY OF Los Angeles )

I, Gloria J. Mascolo, a Notary Public in and for the County and State aforesaid, do hereby certify that Mark E. Engebretson, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 5th day of February, 2004



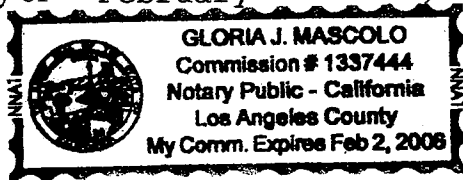
*Gloria J. Mascolo*  
Notary Public

My Commission Expires: February 2, 2006

STATE OF California )  
 ) ss.  
COUNTY OF Los Angeles )

I, Gloria J. Mascolo, a Notary Public in and for the County and State aforesaid, do hereby certify that Yoshiyuki Takeuchi, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 5th day of February, 2004



*Gloria J. Mascolo*  
\_\_\_\_\_  
Notary Public

My Commission Expires: February 2, 2006