# 504582283 10/05/2017

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4628995

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
RAY VAN BRANDENBURG	10/03/2017
ARJEN TIMOTHEUS VEENHUIZEN	09/25/2017
MATTIJS OSKAR VAN DEVENTER	09/19/2017
LUCIA D'ACUNTO	09/21/2017
EMMANUEL DIDIER RÉMI THOMAS	09/25/2017

#### **RECEIVING PARTY DATA**

Name:	KONINKLIJKE KPN N.V.
Street Address:	MAANPLEIN 55
City:	THE HAGUE
State/Country:	NETHERLANDS
Postal Code:	2516 CK
Name:	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST-NATUURWETENSCHAPPELIJK ONDERZOEK TNO
Street Address:	ANNA VAN BUERENPLEIN 1
City:	'S-GRAVENHAGE
State/Country:	NETHERLANDS
Postal Code:	2595 DA

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

Property Type	Number
Application Number:	15717541

#### CORRESPONDENCE DATA

**Fax Number:** (312)913-0002

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.

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**Email:** mueller@mbhb.com

Correspondent Name: MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP

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ATTORNEY DOCKET NUMBER: 17-1345-US

504582283 PATENT REEL: 043800 FRAME: 0203

NAME OF SUBMITTER:	DAVID A. GRABELSKY
SIGNATURE:	/David A. Grabelsky/
DATE SIGNED:	10/05/2017
Total Attachments: 6 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif	

PATENT REEL: 043800 FRAME: 0204

### **ASSIGNMENT**

Case No.: 17-1345-WO-US

Serial No.: 15/717,541

Inventor(s): Ray van Brandenburg

Arjen Timotheus Veenhuizen Mattijs Oskar van Deventer

Lucia d'Acunto

Emmanuel Didier Rémi Thomas

Date of Execution of Application:

Filing Date: September 27, 2017

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assign to:

# Koninklijke KPN N.V.

Maanplein 55 2516 CK The Hague, The Netherlands

# Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek TNO

Anna van Buerenplein 1 2595 DA 's-Gravenhage, The Netherlands

its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

#### Audio Object Processing Based on Spatial Listener Information

and identified as:

#### Case No. 17-1345-WO-US

in the offices of MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there

MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP 300 SOUTH WACKER DRIVE CHICAGO, ILLINOIS 60606 TELEPHONE (312) 913-0001

are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

Signature:		Date: <u>03-10-2017</u>
Name:	Ray van Brandenburg	
Signatura		Date:
Signature: Name:	Arjen Timotheus Veenhuizen	Date.
Signature: Name:	Mattijs Oskar van Deventer	Date:
raine.	manage Contain van Deventer	
Signature:		Date:
Name:	Lucia d'Acunto	
Signature:		Date:
Name:	Emmanuel Didier Rémi Thomas	

#### **ASSIGNMENT**

Case No.: 17-1345-WO-US

Serial No.: 15/717,541

Inventor(s): Ray van Brandenburg

Arjen Timotheus Veenhuizen Mattijs Oskar van Deventer

Lucia d'Acunto

Emmanuel Didier Rémi Thomas

Date of Execution of Application:

Filing Date: September 27, 2017

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# Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek TNO

Anna van Buerenplein 1 2595 DA 's-Gravenhage, The Netherlands

its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

## **Audio Object Processing Based on Spatial Listener Information**

and identified as:

#### Case No. 17-1345-WO-US

in the offices of MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

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MCDONNELL BOEHNEN HULBERT & BERGHOFF LLE 300 SOUTH WACKER DRIVE CHICAGO, ILLINOIS 60608 TELEPHONE (312) 913-0001

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REEL: 043800 FRAME: 0207

are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

Signature: Name:	Ray van Brandenburg	Date:
Signature: Name:	Arjen Timotheus Veenhuizen	Date: <u>75-9-7017</u>
Signature: Name:	Mattijs Oskar van Deventer	Date:
Signature: Name:	Lucia d'Acunto	Date:
Signature: Name:	Emmanuel Didier Rémi Thomas	Date:

MCDONNELL BOEFNEN HULBERT & BERGHOFF LLP 300 SOUTH WACKER DRIVE CHICAGO, ILLINOIS 50806 TELEPHONE (312) 913-0001

#### <u>ASSIGNMENT</u>

Case No.: 17-1345-WO-US

Serial No.: 15/717,541

Inventor(s): Ray van Brandenburg

Arjen Timotheus Veenhuizen Mattijs Oskar van Deventer

Lucia d'Acunto

Emmanuel Didier Rémi Thomas

Date of Execution of Application:

Filing Date: September 27, 2017

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### Audio Object Processing Based on Spatial Listener Information

and identified as:

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in the offices of MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

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McDONNELL BOEHNEN HULBERT & BERGHOFF LLP 300 SOUTH WACKER DRIVE CHICAGO, ILLINOIS 50606 TELEPHONE (312) 913-0001

are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

Signature:	many and himiting by the district of the second sec	Date:
Name:	Ray van Brandenburg	
Signature: Name:	Arjen Timotheus Veenhuizen	Date:
Signature: Name:	Mattijs Oskar van Deventer	Date: 19-9-2017
Signature: Name:	Lucia D'Acunto	Date: 21-9-2017
Signature: Name:	Emmanuel Didier Rémi Thomas	Date: 25-09-2013

McDONNELL BOEHNEN HULBERT & BERGHOFF LL 300 SOUTH WACKER DRIVI CHICAGO, ILLINOIS 60606 TELEPHONE (312) 913-000

**RECORDED: 10/05/2017**