

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5020804

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
LARS VILLEMOES	04/01/2017
PER EKSTRAND	04/24/2017
SASCHA DISCH	04/28/2017
FREDERIK NAGEL	05/02/2017
STEPHAN WILDE	04/25/2017

**RECEIVING PARTY DATA**

<b>Name:</b>	FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V.
<b>Street Address:</b>	HANSASTRASSE 27C
<b>City:</b>	MUNICH
<b>State/Country:</b>	GERMANY
<b>Postal Code:</b>	80686
<b>Name:</b>	DOLBY INTERNATIONAL AB
<b>Street Address:</b>	C/O APOLLO BUILDING, 3E, HERIKERBERGWEG 1-35
<b>City:</b>	AMSTERDAM ZUID-OOST
<b>State/Country:</b>	NETHERLANDS
<b>Postal Code:</b>	1101 CN

**PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16016284

**CORRESPONDENCE DATA**

**Fax Number:** (650)838-4350

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**Phone:** 650-838-4300

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**Correspondent Name:** PERKINS COIE LLP

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**Address Line 4:** SEATTLE, WASHINGTON 98111-1247

<b>ATTORNEY DOCKET NUMBER:</b>	110972-8631.US04
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**PATENT**

<b>NAME OF SUBMITTER:</b>	DELLA REVECHO
<b>SIGNATURE:</b>	/Della Revecho/
<b>DATE SIGNED:</b>	06/22/2018
<b>Total Attachments: 6</b> source=Declaration-Assignment-16016284__110972-8631US04#page1.tif source=Declaration-Assignment-16016284__110972-8631US04#page2.tif source=Declaration-Assignment-16016284__110972-8631US04#page3.tif source=Declaration-Assignment-16016284__110972-8631US04#page4.tif source=Declaration-Assignment-16016284__110972-8631US04#page5.tif source=Declaration-Assignment-16016284__110972-8631US04#page6.tif	

ATTORNEY DOCKET NUMBER: 110972-8631.US03 | FH110321PUS / IIS1b-11 F52181 WO-US2

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

Title of Invention: APPARATUS AND METHOD FOR PROCESSING AN INPUT AUDIO SIGNAL  
USING CASCADED FILTERBANKS

As a below named inventor, I hereby declare that:

This declaration is directed to the attached application, or (if following box is checked):

United States application or PCT international application number 15/459,520 filed on Mar 15, 2017.

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 have reviewed and understand the contents of the application, including the claims.

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

Whereas, the undersigned inventor(s) has/have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application and further identified by the Attorney Docket Number provided above in the header of this document;

Whereas, **Fraunhofer-Gesellschaft zur Foerderung der angewandten Forschung e.V.**, a corporation duly organized under and pursuant to the laws of Germany having its principal place of business at Hansastrasse 27c, Munich Germany 80686; and **Dolby International AB** a corporation duly organized under and pursuant to the laws of the Netherlands, having its principal place of business at c/o Apollo Building, 3E, Herikerbergweg 1-35, 1101 CN, Amsterdam Zuid-Oost, the Netherlands; desire to acquire and each undersigned inventor desires to grant to **Fraunhofer-Gesellschaft zur Foerderung der angewandten Forschung e.V.** and **Dolby International AB**, the entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for one dollar (\$1.00) and good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor, hereinafter referred to as **ASSIGNOR**, hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to **Fraunhofer-Gesellschaft zur Foerderung der angewandten Forschung e.V.** and **Dolby International AB**, hereinafter referred to as **ASSIGNEES**, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to the Assignees, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by the Assignees, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and

enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees to execute, without charge to said Assignees but at the Assignees' expense, any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in Assignees, its successors, legal representatives, and assigns, whenever requested by the Assignees, its successors, legal representatives, or assigns.

ASSIGNOR(S) grants the attorney of record the power to insert on this Assignment any further identification 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.

Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to the Assignees and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned inventor also hereby grants the assignees, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

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.

1) Legal Name of Inventor: Lars VILJEMOES

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

Date: \_\_\_\_\_

April, 2017

2) Legal Name of Inventor: Per EKSTRAND

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

Date: \_\_\_\_\_

April 24, 2017

3) Legal Name of Inventor: Sascha DISCH

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

Date: \_\_\_\_\_

4) Legal Name of Inventor: Frederik NAGEL

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

Date: \_\_\_\_\_

5) Legal Name of Inventor: Stephan WILDE

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

Date: \_\_\_\_\_

ATTORNEY DOCKET NUMBER: 110972-8631.US03 | FH110321PUS / IIS1b-11 F52181 WO-US2

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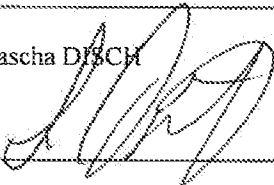
1) Legal Name of Inventor: Lars VILLEMOES

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

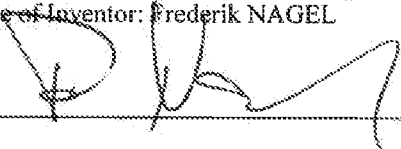
2) Legal Name of Inventor: Per EKSTRAND

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

3) Legal Name of Inventor: Sascha DIECK

Signature:  \_\_\_\_\_ Date: 28.4.17

4) Legal Name of Inventor: Frederik NAGEL

Signature:  \_\_\_\_\_ Date: 2.5.17

5) Legal Name of Inventor: Stephan WILDE

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

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1) Legal Name of Inventor: Lars VILLEMOES

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

2) Legal Name of Inventor: Per EKSTRAND

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

3) Legal Name of Inventor: Sascha DISCH

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

4) Legal Name of Inventor: Frederik NAGEL

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

5) Legal Name of Inventor: Stephan WILDE

Signature:  \_\_\_\_\_ Date: 25/04/2017