

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT6211026

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
GUILLAUME FUCHS	07/08/2020
JÜRGEN HERRE	07/06/2020
FABIAN KÜCH	07/07/2020
STEFAN DÖHLA	07/09/2020
MARKUS MULTRUS	07/07/2020
OLIVER THIERGART	07/06/2020
OLIVER WÜBBOLT	07/09/2020
FLORIN GHIDO	07/10/2020
STEFAN BAYER	07/09/2020
WOLFGANG JAEGER	07/13/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.
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<b>Postal Code:</b>	80686
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16867856
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(404)521-4286
<i>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.</i>	
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<b>Email:</b>	dan.mcclure@mqlaw.com
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<b>ATTORNEY DOCKET NUMBER:</b>	251918-1790
<b>NAME OF SUBMITTER:</b>	DANIEL R. MCCLURE
<b>SIGNATURE:</b>	/Daniel R. McClure/
<b>DATE SIGNED:</b>	07/21/2020

**Total Attachments: 13**

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ASSIGNMENT  
OF UTILITY PATENT APPLICATION

WHEREAS, the following parties:

<u>Name</u>	<u>Address</u>
Guillaume FUCHS	Joseph-Otto-Kolb-Str. 31 91088 Bubenreuth DE
Jürgen HERRE	Rathsberger Str. 10a 91054 Erlangen DE
Fabian KÜCH	Schützenweg 13 91054 Erlangen DE
Stefan DÖHLA	Saidelsteig 61 91058 Erlangen DE
Markus MULTRUS	Etzlaubweg 7 90469 Nürnberg DE
Oliver THIERGART	Gebbertstraße 38 91052 Erlangen DE
Oliver WÜBBOLT	Saarbrückener Str. 4 30559 Hannover

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Florin GHIDO

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90409 Nürnberg  
DE

Stefan BAYER

Dortmunder Str. 14  
90425 Nürnberg  
DE

Wolfgang JAEGER

Pfandlohe 4  
91301 Forchheim  
DE

hereinafter referred to as ASSIGNOR, has/have invented certain new and useful improvements ("invention(s)") as described and set forth in the below-identified utility application for United States Letters Patent entitled:

Apparatus and Method for Encoding or Decoding Directional Audio Coding Parameters Using Quantization and Entropy Coding

which was:

- executed on even date herewith,
- filed with the United States Patent and Trademark Office (USPTO) on May 06, 2020, and assigned Serial No. 16/867,856, and
- further described in U.S. Provisional application entitled \_\_\_\_\_, filed with the USPTO on \_\_\_\_\_, and assigned Serial No. \_\_\_\_\_.

*Note: Only one of the first two checkboxes will be checked. The third checkbox will be checked, only if appropriate.*

WHEREAS, Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V., having a place of business at Hansastraße 27c, 80686 München, Germany, hereinafter referred

to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in and to said invention(s), said utility application, said provisional application, and any U.S. and foreign patents which are related to the same.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR, ASSIGNOR has sold, assigned and transferred and does hereby sell, assign and transfer unto ASSIGNEE, and ASSIGNEE'S successors and assigns, (a) the entire right, title and interest, for the United States of America, in and to said invention(s), said utility application, and said Provisional application and all the rights and privileges in any application and under any and all patents that may be granted in the U.S. for said inventions, including all corresponding provisional, continuation, continuation-in-part, divisional, reissue, and reexamination applications; and (b) the entire right, title and interest in and to said invention(s), said utility application, and said provisional application for all countries foreign to the U.S., including all rights of priority arising from them, and all the rights and privileges under any and all forms of protection, including patents, that may be granted in said countries foreign to the U.S. for them.

ASSIGNOR authorizes ASSIGNEE to make application for such protection in its own name and maintain such protection in any and all countries foreign to the U.S., and to invoke and claim for any application for patent or other form of protection for said Inventions, without further authorization from ASSIGNOR, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

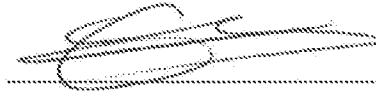
ASSIGNOR hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of ASSIGNEE to apply for patent or other form of protection for said Inventions, said utility application, or said provisional application and to claim the aforesaid benefit of the right of priority.

ASSIGNOR requests that any and all patents for said inventions be issued to ASSIGNEE in the U.S. and to ASSIGNEE in all countries foreign to the U.S., or to such nominee as ASSIGNEE may designate.

ASSIGNOR covenants and agrees that, when requested, ASSIGNOR shall, without charge to ASSIGNEE but at ASSIGNEE'S expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient in connection with the patent applications, patents, or other forms of protection of said invention(s), and for the defense and protection thereof if challenged in the court of law.

ASSIGNOR authorizes ASSIGNEE or its agents to insert, on ASSIGNOR'S behalf, the

filing date and/or serial number above pertaining to the utility application and/or the provisional application, if not known as of the date of execution of this document.



Guillaume FUCHS

Date: 8.07.2020

Jürgen HERRE

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

Fabian KÜCH

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

Stefan DÖHLA

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

Markus MULTRUS

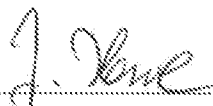
Date: \_\_\_\_\_

Oliver THIERGART

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

ASSIGNOR authorizes ASSIGNEE or its agents to insert, on ASSIGNOR's behalf, the filing date and/or serial number above pertaining to the utility application and/or the provisional application, if not known as of the date of execution of this document.

Date: \_\_\_\_\_  
Guillaume FUCHS

Date: 6 July 2020  
  
Jürgen HERRE

Date: \_\_\_\_\_  
Fabian KÜCH

Date: \_\_\_\_\_  
Stefan DÖHLA

Date: \_\_\_\_\_  
Markus MULTRUS

Date: \_\_\_\_\_  
Oliver THIERGART

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Date: .....

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Guillaume FUCHS

Date: .....

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Jürgen HERRE

Date: 77. 2020

  
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Fabian KÜCH

Date: .....

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Stefan DÖHLA

Date: .....

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Markus MULTRUS

Date: .....

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Oliver THIERGART

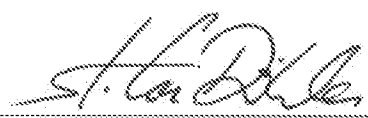


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Date: \_\_\_\_\_  
Guillaume FUCHS

Date: \_\_\_\_\_  
Jürgen HERRE

Date: \_\_\_\_\_  
Fabian KÜCH

Date: July 9, 2020  
  
Stefan DÖHLA

Date: \_\_\_\_\_  
Markus MULTRUS

Date: \_\_\_\_\_  
Oliver THIERGART

filing date and/or serial number above pertaining to the utility application and/or the provisional application, if not known as of the date of execution of this document.

Date: \_\_\_\_\_  
Guillaume FUCHS

Date: \_\_\_\_\_  
Jürgen HERRE

Date: \_\_\_\_\_  
Fabian KÜCH

Date: \_\_\_\_\_  
Stefan DÖHLA

Date: 2020-07-07  
  
Markus MÜLTRUS

Date: \_\_\_\_\_  
Oliver THIERGART

ASSIGNOR authorizes ASSIGNEE or its agents to insert, on ASSIGNOR's behalf, the filing date and/or serial number above pertaining to the utility application and/or the provisional application, if not known as of the date of execution of this document.

Date: \_\_\_\_\_  
Guillaume FUCHS

Date: \_\_\_\_\_  
Jürgen HERRE

Date: \_\_\_\_\_  
Fabian KÜCH

Date: \_\_\_\_\_  
Stefan DÖHLA

Date: \_\_\_\_\_  
Markus MULTRUS

Date: 6.7.2020  
  
Oliver THIERGART

Date: 9.7.2020

  
\_\_\_\_\_  
Oliver WÜBBOLT

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

\_\_\_\_\_  
Florin GHIDO

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

\_\_\_\_\_  
Stefan BAYER

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

\_\_\_\_\_  
Wolfgang JAEGER

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Page 5 of 5

(Patent Assignment)

Date: .....

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Oliver WÜBBOLT

Date: 10.07.2020

  
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Florin GHIDO

Date: .....

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Stefan BAYER

Date: .....

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Wolfgang JAEGER

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(Patent Assignment)

\_\_\_\_\_  
Oliver WÜBBOLT

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

\_\_\_\_\_  
Florin GHIDO

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

  
\_\_\_\_\_  
Stefan BAYER

Date: 05.01.2020

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Wolfgang JAEGERS

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

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\_\_\_\_\_  
Oliver WÜBBOLT


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

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Florin GHIDO

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

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Stefan BAYER

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

  
\_\_\_\_\_  
Wolfgang JAEGER S

Date: 13.07.2020