

## PATENT ASSIGNMENT COVER SHEET

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<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YAGO SÁNCHEZ DE LA FUENTE	11/09/2022
KARSTEN SÜHRING	11/01/2022
CORNELIUS HELLGE	11/01/2022
THOMAS SCHIERL	11/09/2022
ROBERT SKUPIN	11/02/2022
THOMAS WIEGAND	11/10/2022
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	17982015
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<b>ATTORNEY DOCKET NUMBER:</b>	128571-5348-US
<b>NAME OF SUBMITTER:</b>	MANU BANSAL
<b>SIGNATURE:</b>	/Manu Bansal/
<b>DATE SIGNED:</b>	06/27/2023

**Total Attachments: 4**

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**ASSIGNMENT**

WHEREAS, We, **Yago SÁNCHEZ DE LA FUENTE**, c/o Fraunhofer-Institut für Nachrichtentechnik, Heinrich-Hertz-Institut, HHI, Einsteinufer 37, 10587 Berlin, Germany; **Karsten SÜHRING**, c/o Fraunhofer-Institut für Nachrichtentechnik, Heinrich-Hertz-Institut, HHI, Einsteinufer 37, 10587 Berlin, Germany; **Cornelius HELLGE**, c/o Fraunhofer-Institut für Nachrichtentechnik, Heinrich-Hertz-Institut, HHI, Einsteinufer 37, 10587 Berlin, Germany; **Thomas SCHIERL**, c/o Fraunhofer-Institut für Nachrichtentechnik, Heinrich-Hertz-Institut, HHI, Einsteinufer 37, 10587 Berlin, Germany; **Robert SKUPIN**, c/o Fraunhofer-Institut für Nachrichtentechnik, Heinrich-Hertz-Institut, HHI, Einsteinufer 37, 10587 Berlin, Germany; and **Thomas WIEGAND**, c/o Fraunhofer-Institut für Nachrichtentechnik, Heinrich-Hertz-Institut, HHI, Einsteinufer 37, 10587 Berlin, Germany, hereinafter generally referred to collectively as "**ASSIGNORS**," have invented certain new and useful inventions entitled:

**"Video Encoder, Video Decoder, Methods for Encoding and Decoding and Video Data Stream for Realizing Advanced Video Coding Concepts"**

that are claimed and/or described in U.S. Patent Application No. 17/934,007 filed September 21, 2022, International PCT Application No. PCT/EP2021/063587 filed May 21, 2021, EP Patent Application No. 20176178.0 filed May 22, 2020, and EP Patent Application No. 20176206.9 filed May 22, 2020 (hereinafter generally referred to as "Inventions").

WHEREAS, **Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V.**, a company having a place of business at Hansastraße 27c, 80686 München, Germany, hereinafter generally referred to as "**ASSIGNEE**," is desirous of memorializing and confirming, or if necessary acquiring, legal and equitable title in the Inventions.

WHEREAS, ASSIGNOR invented the Inventions while performing work for ASSIGNEE and believes that they previously assigned all of their rights in the Inventions to ASSIGNEE.

NOW, THEREFORE, ASSIGNOR confirms that ASSIGNOR intended to assign and assigned all of ASSIGNOR's right, title, and interest in the Inventions to ASSIGNEE.

To the extent ASSIGNORS retained any right, title, or interest in or to the Inventions, in consideration of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged and intending to be legally bound hereby, we, ASSIGNORS, have assigned and/or hereby sells, assigns, transfers and conveys unto ASSIGNEE, the whole and entire right, title and interest in and to:

all Inventions;

the above patent applications and any and all United States and foreign patent applications disclosing one or more of the Inventions including, without limitation, applications for patents including provisionals, non-provisionals, divisions, continuations, continuations-in-part, utility models, PCT applications and designs and any other related United States and foreign applications and equivalents thereof ("**Applications**"), along with the right to claim priority to the Applications under any treaty relating thereto;

all United States and foreign patents, utility models, inventor's certificates and designs and all equivalents thereof which may be granted for the Inventions or Applications, and all post-grant actions including extensions, renewals, reissues, reexamination certificates, post-grant review certificates, inter partes review certificates, and supplemental examination certificates thereof ("Patents"); and

all rights to sue for and recover for, and the right to profits and damages due or accrued arising out of or in connection with any and all past, present or future infringements in the United States and all foreign countries, of the Inventions, Applications or Patents for the sole use and benefit of ASSIGNEE, its successors, assigns and legal representatives.

Each ASSIGNOR hereby represents and warrants that they have full right, power and authority to assign their entire right, title, and interest in the Inventions, Applications, and Patents, and no assignment, sale, agreement, or encumbrance has been or will be made or entered into which would conflict with this Assignment.

This Assignment has been duly executed and delivered and constitutes a valid, binding and enforceable assignment of the entire right, title, and interest in the Inventions, Applications, and Patents.

*(Assignment may be executed in counterparts)*

Nov. 9. 2012  
Date

  
Yago SANCHEZ DE LA FUENTE

Nov. 1 2012  
Date

  
Karsten SÜHRING

Nov. 1 2012  
Date

  
Cornelius HELLGE

Nov 9. 2012  
Date

  
Thomas SCHIERL

Nov 2 2012  
Date

  
Robert SKUPIN

Nov. 10 2012  
Date

  
Thomas WIEGAND

Date

Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung  
e.V.

NAME:

TITLE:

Date Yago SÁNCHEZ DE LA FUENTE

Date Karsten SUHRING

Date Cornelius HELLGE

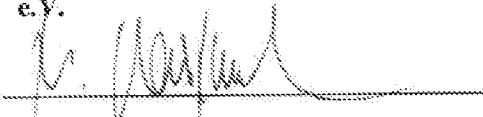
Date Thomas SCHIERL

Date Robert SKUPIN

Date Thomas WIEGAND

Dec. 7, 2012  
Date

Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung  
e.V.



NAME: Dr. Michael Weishäupl  
TITLE: Deputy Head of Patent Department