

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT6709841

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YEONATAN DALLAL	03/18/2021
IDAN MICHAEL HORN	03/15/2021
SHAY LANDIS	03/15/2021
RAN BERLINER	03/31/2021
AMIT BAR-OR TILLINGER	03/15/2021
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	QUALCOMM INCORPORATED
<b>Street Address:</b>	5775 MOREHOUSE DRIVE
<b>City:</b>	SAN DIEGO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92121-1714
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	17195056
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(214)200-0853
<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>	
<b>Phone:</b>	2146515000
<b>Email:</b>	ipdocketing@haynesboone.com
<b>Correspondent Name:</b>	HAYNES AND BOONE, LLP
<b>Address Line 1:</b>	2323 VICTORY AVENUE
<b>Address Line 2:</b>	SUITE 700
<b>Address Line 4:</b>	DALLAS, TEXAS 75219
<b>ATTORNEY DOCKET NUMBER:</b>	49606.951US01 (208540)
<b>NAME OF SUBMITTER:</b>	GREGORY WEBB
<b>SIGNATURE:</b>	/GREGORY WEBB/
<b>DATE SIGNED:</b>	05/14/2021
<b>Total Attachments: 15</b>	

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## ASSIGNMENT

WHEREAS, WE,

1. **Yehonatan Dallal**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121-1714**,
2. **Idan Michael Horn**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121-1714**,
3. **Shay Landis**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121-1714**,
4. **Ran Berliner**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121-1714**,
5. **Amit Bar-Or Tillinger**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121-1714**,

have conceived of one or more processes, methods, machines, articles of manufacture, designs, compositions of matter, inventions, discoveries or new or useful improvements relating to **LINE-OF-SIGHT MULTIPLE-INPUT-MULTIPLE-OUTPUT (LOS-MIMO) COMMUNICATIONS USING FOCUSING ELEMENTS** (collectively the "INVENTIONS") for which WE have executed and/or may execute one or more patent applications therefor; and

WHEREAS, **QUALCOMM Incorporated** (hereinafter "**ASSIGNEE**"), a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., desires to acquire or otherwise obtain the entire right, title, and interest in and to said INVENTIONS, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, WE do hereby acknowledge that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, the entire right, title, and interest throughout the world in and to said INVENTIONS, including all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in the United States, including but not limited to U.S. Application No(s). 17/195,056, filed March 8, 2021, **Qualcomm Reference Number 208540** and all non-provisional applications relating thereto (and do hereby authorize ASSIGNEE and its representative to hereafter add herein such application number(s) and/or filing

date(s) when known), and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, and design applications thereof, and all issued patents of the United States which may have granted or may be granted hereafter thereon and all reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon in the United States;

AND WE further do acknowledge and agree that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, all rights of priority under International Conventions, Treaties, or Agreements, and the entire right, title, and interest throughout the world in said INVENTIONS, including all inventions related thereto or thereof, and all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in the United States or in any foreign country, countries, or treaty/union organizations, and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, patent of addition applications, confirmation applications, validation applications, utility model applications, and design applications thereof, and all issued patents which may have granted or may be granted hereafter for said INVENTIONS in any country or countries foreign to the United States, and all reissues, renewals, reexaminations, and extensions thereof;

AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, its legal representatives and its assigns, in accordance with the terms of this instrument;

AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover, and retain damages and any ongoing or prospective royalties to which WE may be entitled, or that WE may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;

AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries;

AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at Far Saba, Israel, on 3/19/2021  
City, State, Country Date

  
Yehonatan DALLAL

AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State, Country Date

\_\_\_\_\_  
Idan Michael HORN

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State, Country Date

\_\_\_\_\_  
Shay LANDIS

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State, Country Date

\_\_\_\_\_  
Ran BERLINER

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State, Country Date

\_\_\_\_\_  
Amit BAR-OR TILLINGER

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5. **Amit Bar-Or Tillinger**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121-1714**,

have conceived of one or more processes, methods, machines, articles of manufacture, designs, compositions of matter, inventions, discoveries or new or useful improvements relating to **LINE-OF-SIGHT MULTIPLE-INPUT-MULTIPLE-OUTPUT (LOS-MIMO) COMMUNICATIONS USING FOCUSING ELEMENTS** (collectively the "INVENTIONS") for which WE have executed and/or may execute one or more patent applications therefor; and

WHEREAS, **QUALCOMM Incorporated** (hereinafter "ASSIGNEE"), a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., desires to acquire or otherwise obtain the entire right, title, and interest in and to said INVENTIONS, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, WE do hereby acknowledge that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, the entire right, title, and interest throughout the world in and to said INVENTIONS, including all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in the United States, including but not limited to **U.S. Application No(s). 17/195,056, filed March 8, 2021, Qualcomm Reference Number 208540** and all non-provisional applications relating thereto (and do hereby authorize ASSIGNEE and its representative to hereafter add herein such application number(s) and/or filing

date(s) when known), and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, and design applications thereof, and all issued patents of the United States which may have granted or may be granted hereafter thereon and all reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon in the United States;

AND WE further do acknowledge and agree that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, all rights of priority under International Conventions, Treaties, or Agreements, and the entire right, title, and interest throughout the world in said INVENTIONS, including all inventions related thereto or thereof, and all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in the United States or in any foreign country, countries, or treaty/union organizations, and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, patent of addition applications, confirmation applications, validation applications, utility model applications, and design applications thereof, and all issued patents which may have granted or may be granted hereafter for said INVENTIONS in any country or countries foreign to the United States, and all reissues, renewals, reexaminations, and extensions thereof;

AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, its legal representatives and its assigns, in accordance with the terms of this instrument;

AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover, and retain damages and any ongoing or prospective royalties to which WE may be entitled, or that WE may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;

AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries;

AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State, Country Date Yehonatan DALLAL

AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at Hol HaSharon, on 18-march-2011  
City, State, Country Date Idan Michael HORN

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State, Country Date Shay LANDIS

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State, Country Date Ran BERLINER

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State, Country Date Amit BAR-OR TILLINGER



**ASSIGNMENT**

WHEREAS, WE,

1. **Yehonatan Dallal**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121-1714**,
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5. **Amit Bar-Or Tillinger**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121-1714**,

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WHEREAS, **QUALCOMM Incorporated** (hereinafter "**ASSIGNEE**"), a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., desires to acquire or otherwise obtain the entire right, title, and interest in and to said INVENTIONS, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

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AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries;

AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State, Country Date Yehonatan DALLAL

AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State, Country Date Idan Michael HORN

Done at Hod Hasharon, on 15-MAR-2024  
City, State, Country Date  Shay LANDIS

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State, Country Date Ran BERLINER

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State, Country Date Amit BAR-OR TILLINGER

**ASSIGNMENT**

WHEREAS, WE,

1. **Yehonatan Dallal**, having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121-1714**,
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WHEREAS, **QUALCOMM Incorporated** (hereinafter “ASSIGNEE”), a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., desires to acquire or otherwise obtain the entire right, title, and interest in and to said INVENTIONS, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

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date(s) when known), and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, and design applications thereof, and all issued patents of the United States which may have granted or may be granted hereafter thereon and all reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon in the United States;

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Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State, Country Date Yehonatan DALLAL

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Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State, Country Date Idan Michael HORN

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State, Country Date Shay LANDIS

Done at Hod Hasharon, on 3/31/2021  
City, State, Country Date  Ran BERLINER

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State, Country Date Amit BAR-OR TILLINGER

## ASSIGNMENT

WHEREAS, WE,

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QUALCOMM

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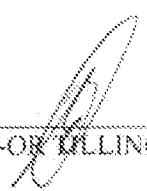
Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State, Country Date Yehonatan DALLAL

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Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State, Country Date Idan Michael HORN

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State, Country Date Shay LANDIS

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State, Country Date Ran BERLINER

Done at Tel-Aviv, Israel on Mar-15, 2021  
City, State, Country Date Amit BAR-OR  LLLINGER