505728340 10/17/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LIANGMING WU	01/25/2018
YU ZHANG	01/17/2018
WANSHI CHEN	12/11/2017

RECEIVING PARTY DATA

Name:	QUALCOMM INCORPORATED
Street Address:	5775 MOREHOUSE DRIVE
City:	SAN DIEGO
State/Country:	CALIFORNIA
Postal Code:	92121-1714

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16606032

CORRESPONDENCE DATA

Fax Number:

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.

Email: tamerie.ballance@nortonrosefulbright.com

Correspondent Name: QUALCOMM/NORTON ROSE FULBRIGHT US LLP

Address Line 1: 2200 ROSS AVE Address Line 2: SUITE 3600

Address Line 4: DALLAS, TEXAS 75201

ATTORNEY DOCKET NUMBER:	QLXX.P1196US
NAME OF SUBMITTER:	THOMAS J. MEANEY
SIGNATURE:	/THOMAS J. MEANEY/
DATE SIGNED:	10/17/2019

Total Attachments: 4

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PATENT 505728340 REEL: 050760 FRAME: 0081

ASSIGNMENT

转让协议

WHEREAS, WE

1. <u>WU, Liangming</u>, a citizen of <u>CN</u>, having a mailing address located at <u>5775 Morehouse Drive</u>, <u>San Diego</u>, <u>California 92121-1714</u>, <u>U.S.A.</u>; and a resident of **CN**.

- 2. ZHANG, Yu a citizen of CN having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A.; and a resident of CN.
- 3. <u>CHEN, Wanshi</u>, a citizen of <u>CN</u>, having a mailing address located at <u>5775 Morehouse Drive</u>, <u>San Diego, California 92121-1714, U.S.A.</u>; and a resident of <u>US</u>,

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 PMI FEEDBACK FOR TYPE II CSI FEEDBACK IN NR-MIMO (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 patent applications therefore, 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

鉴于,我们

- 1. <u>武良明</u>, <u>中国</u>的公民, 邮寄地址 美国加利福尼亚州圣地亚利廉豪斯道 77 号 和 中国 的居民,

产生了一个或多个与 PMI FEEDBACK FOR TYPE II CSI FEEDBACK IN NR-MIMO 有关的过程、方法、机器、制品、设计、物质成分、发明、发现,或者新的或有用的改进(统称"发明"),我们对这种发明提出和/或可能提出一个或多个专利申请,及

鉴于,高通公司(以下简称"受让人"),一家特拉华州的公司,营业地在美国加利福尼亚州圣地亚哥魔豪斯道77号,邮编92121-1714,希望获得或以其他方式取得所述发明的所有权利、所有权和权益,包括其所有专利申请和所有已授权或此后由其可能被授权的专利,包括但不限于下面确定的那些专利。

因此,基于我们确认收到的有价值 的对价,我们在此认可,我们已经出

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may collect for any infringement or from any 有损害赔偿及任何正在进行或预期的许 settlement or agreement related to any of said 可使用费的权利, 这些损害赔偿及许可 patents before or after issuance; 使用费是我们可能有权或我们可能收取 的与任何所述专利有关的在其颁发前或 颁发后由于侵权或来自任何调解或和解 的损害赔偿及许可使用费; AND WE HEREBY covenant and agree that 我们在此承诺并同意, 我们将就我 WE will communicate promptly to said ASSIGNEE. 们所知的关于所述发明的任何事实与所 its successors, its legal representatives, and its 述受让人、其继任者、其合法代表人、 assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal 及其受让者及时沟通、并在任何需要的 proceeding, sign all lawful papers, execute all 法律程序中作证、签署全部合法文件、 applications and certificates, make all rightful 签署所有申请书和证书、做出所有正确 declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its 的声明和/或宣誓、井向所述受让人、其 legal representatives and its assigns, to obtain and 继任者、其合法代表人、及其受让者提 enforce patent protection for said INVENTIONS in 供一切合法的援助,以在所有国家获得 all countries:

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

AND WE agree this ASSIGNMENT shall be interpreted under the laws of the State of California, and that in case of a discrepancy between the English version and the Chinese version of this agreement, the English version shall prevail.

我们在此承诺,我们不会签署任何 与这些陈述相冲突的书面文件或有任何 与这些陈述相冲突的行为;

和实施所述发明的专利保护、

我们同意,本转让协议依据美国加利福尼亚州法律解释。如果本协议的中英文文本内容不一致,以英文文本为准。

1. WU, Liangming	-31 72 m2
	Signature
Done at Beijing [City, State] this of the day of Jan	于28/8年_/月 ² 1_日签署于 <u>_化</u> (州,市)。
2. ZHANG, Yu	
	Signature
Done at [City, State] this day of	于年月日签署于

may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;

有损害赔偿及任何正在进行或预期的许可使用费的权利,这些损害赔偿及许可使用费是**我们**可能有权或**我们**可能收取的与任何所述专利有关的在其颁发前或颁发后由于侵权或来自任何调解或和解的损害赔偿及许可使用费;

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;

我们在此承诺并同意,我们将就我们所知的关于所述发明的任何事实与所述受让人、其继任者、其合法代表人、及其受让者及时沟通,并在任何需要的法律程序中作证、签署全部合法文件、签署所有申请书和证书、做出所有正确的声明和/或宣誓、并向所述受让人、其继任者、其合法代表人、及其受让者提供一切合法的援助,以在所有国家获得和实施所述发明的专利保护;

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

我们在此承诺,我们不会签署任何 与这些陈述相冲突的书面文件或有任何 与这些陈述相冲突的行为;

AND WE agree this ASSIGNMENT shall be interpreted under the laws of the State of California, and that in case of a discrepancy between the English version and the Chinese version of this agreement, the English version shall prevail.

我们同意,本转让协议依据美国加利福尼亚州法律解释。如果本协议的中英文文本内容不一致,以英文文本为 准。

1. WU, Liangming	Signature
Done at [City, State] this day of	于年月日签署于 (州,市)。
2. ZHANG, Yu	Signature 45
Done at C. D. City, State this 174 day of	于年月日签署于

Ja. , 2113.	(/ / , i ji) «
3. CHEN, Wanshi	
Smart of	Signature
Done at [City, State] thisday of	于年月日签署于 (州,市)。