# 505189111 11/13/2018 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NATURE OF CONVEYANCE:		NEW ASSIGN	NEW ASSIGNMENT ASSIGNMENT			
		ASSIGNMEN				
CONVEYING PARTY D	ΑΤΑ					
		Name			Execution Date	
LIXIN FAN				05/23/2016		
XIAOSHUI HUANG					05/24/2016	
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JIAN ZHANG					05/24/2016	
RECEIVING PARTY DA	TA					
Name:	ame: NOKIA TECHNOLOGIES OY					
Street Address:	KARAF	ORTTI 3				
City:	ESPOC	ESPOO				
State/Country:	FINLAN	ID				
Postal Code:	02610					
Property Type		Num	ber			
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### ASSIGNMENT

I/we, (The ASSIGNOR(S)):

Lixin Fan Xiaoshui Huang Qiang Wu Jian Zhang

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, hereby assign to (hereafter referred to as The ASSIGNEE):

Nokia Technologies OY Karaportti 3 02610 Espoo Finland

An invention entitled (invention Title):

#### POINT CLOUD MATCHING METHOD

The PATENT RIGHTS referred to in this agreement are:

Х	a national Patent Application No. 1608860.1 filed in Great Britain	on May 20, 2016.

- European Patent Application No.
- PCT application No. filed on ....

for this invention, executed by the ASSIGNOR(S)

U.S. Patent Application Serial No.\_\_\_\_\_\_ filed \_\_\_\_\_\_ filed \_\_\_\_\_\_ 444

filed on

The PATENT RIGHTS assigned under this agreement are:

- U.S. Patent rights
- worldwide Patent rights. In this case, the assignee shall have the right to claim the benefit of the filing date of any Patent Application identified above. the full and exclusive right to the invention; X

The ASSIGNOR(S) do hereby assign the following to each ASSIGNEE; their successors and assigns:

an equal interest in and to the entire right, title and interest in and to the PATENT RIGHTS in the invention, all continuations, continuations-in-part, divisionals, re-issues, and reexamination patents and patent applications; and

the right to claim priority under 35 U.S.C. § 119, based on any earlier foreign applications for this invention.

As to all U.S. Patent Applications assigned under this Agreement, the ASSIGNOR(S) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue all Letters Patent to the ASSIGNEE(S) as the ASSIGNEE(S) of an equal interest in the entire right, title and interest, for the sole use and enjoyment of said ASSIGNEE(S), their successors and assigns.

Further, the ASSIGNOR(S) agree(s) to communicate to said ASSIGNEE(S), or their representatives, any facts known to the ASSIGNOR(S) respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be issued to said ASSIGNEE(S), make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE(S), their successors and assigns, to obtain and enforced proper protection for said invention.

Further, I/We authorize the attorney of record to update this document to include Patent Office information as deemed necessary (i.e., filing date, serial number, etc.);

Each Inventor: Please sign and date below:

PATENT REEL: 047491 FRAME: 0627

<u>(Jiachus Muang</u> [Xiaoshui Huang]

Muming Than Witness Signature Printed Name Muming Thao

<u>24/05/2016</u> Date <u>24/05/2016</u> Date

## PATENT **REEL: 047491 FRAME: 0628**

Witness Signature Printed Name

[Qiang Wu

Juniie

Zhang\_\_

24/05/2016 Date

24/05/2016

Date

### PATENT REEL: 047491 FRAME: 0629

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[Jian Zhang]

Line Li Witness Signature Printed Name Lina L .....

2415/2616 Date

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[Lixin Fan]

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Witness Signature Printed Name , Je con a v Crimela

23.05.7016 Date

**RECORDED: 11/13/2018**