

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JINGWEI XU	11/18/2019
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YUXIN GUAN	11/18/2019
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<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16689777
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<b>SIGNATURE:</b>	/Guy R. Gosnell/
<b>DATE SIGNED:</b>	11/20/2019
<b>Total Attachments: 5</b>	
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## ASSIGNMENT

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

Jingwei Xu  
Bruce Bernhardt  
Yuxin Guan  
Arnold Sheynman

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

HERE Global B.V.  
Kennedyplein 222  
5611 ZT Eindhoven  
Netherlands

An invention entitled (invention Title):

## METHOD AND APPARATUS FOR ESTIMATING A LOCATION OF A VEHICLE

The PATENT RIGHTS referred to in this agreement are:

-- a national Patent Application No. \_\_\_\_\_ filed on \_\_\_\_\_  
-- European Patent Application No. \_\_\_\_\_ filed on \_\_\_\_\_  
-- PCT application No. \_\_\_\_\_ filed on \_\_\_\_\_

for this invention, executed by the ASSIGNOR(S)

☒ U.S. Patent Application Serial No. \_\_\_\_\_ filed \_\_\_\_\_  
-- U.S. Patent No. \_\_\_\_\_, issued \_\_\_\_\_

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;

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;

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 re-examination 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:

HN91289

  
[Jingwei Xu]

  
Date

Witness Signature  
Printed Name YIFAN DU

  
Date

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Bruce A. Bernhardt  
[Bruce Bernhardt]

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Date

N. L.  
Witness Signature  
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11/18/2019  
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[Yuxin Guan]

Andrew Calkins

Witness Signature

Printed Name Andrew Calkins

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Date

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PATENT

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Arnold Sheynman  
[Arnold Sheynman]

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11/18/2019  
Date