

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
YAXIONG CAI	09/17/2018
XIAOGUANG QI	09/17/2018
KIYOUNG YANG	09/14/2018
SHIH-CHIEH SU	09/17/2018
SALIHA AZZAM	09/18/2018
JAYARAM N.M. NANDURI	09/18/2018
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Street Address:	ONE MICROSOFT WAY
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State/Country:	WASHINGTON
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16134726
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ATTORNEY DOCKET NUMBER:	404827-US-NP
NAME OF SUBMITTER:	CHRISTINE HARTNESS
SIGNATURE:	/Christine Hartness/
DATE SIGNED:	09/18/2018
Total Attachments: 12	

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I Yaxiong CAI ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PERSONALIZATION ENHANCED RECOMMENDATION MODELS" ("APPLICATION"), which:

☒ will be filed. ASSIGNOR hereby authorizes, and requests, ASSIGNEE'S legal representative, Microsoft Technology Licensing, LLC, One Microsoft Way, Redmond, Washington 98052 (ASSIGNEE'S LEGAL REPRESENTATIVES), to insert here in parentheses (filed on September 18, 2018 and given Application No. 16/134,726 by the following Office US – United States Patent and Trademark Office) this APPLICATION's Application No., filing date, and Office, when known;

☐ was filed on _____ and was given Application No. _____ by the following Office "_____",

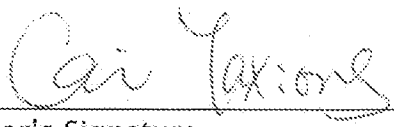
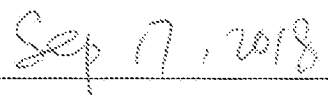
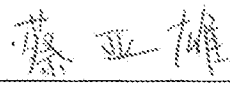
Microsoft Technology Licensing, LLC, a Washington limited liability company, on behalf of itself and its successors and assigns ("ASSIGNEE"), is entitled to, and is desirous of acquiring, the entire and exclusive rights, title and interest, including the right of priority, in the INVENTION and the APPLICATION (and all other applications and patents derived therefrom, such as continuing applications, in whole or in part, in and for the United States, its territories, and all foreign countries ("APPLICATION DERIVATIVES"));

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ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of the APPLICATION (and APPLICATION DERIVATIVES), for litigation regarding letters patent derived therefrom, and for the purpose of protecting and perfecting title to the APPLICATION (and APPLICATION DERIVATIVES).

 _____ Inventor's Signature	 _____ Date
Yaxiong CAI _____ Printed Name in English	 _____ Printed Name in Native Language (if other than English)

I Xiaoguang QI ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PERSONALIZATION ENHANCED RECOMMENDATION MODELS" ("APPLICATION"), which:

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	9/17/2018
Inventor's Signature	Date
Xiaoguang Qi	
Printed Name in English	Printed Name in Native Language (if other than English)

I Kiyoung YANG ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PERSONALIZATION ENHANCED RECOMMENDATION MODELS" ("APPLICATION"), which:

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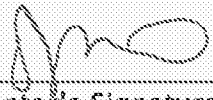
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 _____ Inventor's Signature	<u>9/14/2018</u> _____ Date
<u>Kiyong YANG</u> _____ Printed Name in English	<u>양 기영</u> _____ Printed Name in Native Language (If other than English)

I Shih-Chieh SU ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PERSONALIZATION ENHANCED RECOMMENDATION MODELS" ("APPLICATION"), which:

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	<u>9/17/2018</u>
Inventor's Signature	Date
<u>Shih-Chieh SU</u>	
Printed Name in English	Printed Name in Native Language (If other than English)

I Saliha AZZAM ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PERSONALIZATION ENHANCED RECOMMENDATION MODELS" ("APPLICATION"), which:

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	<u>9/18/2018</u>
Inventor's Signature	Date
<u>Saliha AZZAM</u>	<u></u>
Printed Name in English	Printed Name in Native Language (if other than English)

I Jayaram N.M. NANDURI ("ASSIGNOR") am the original inventor or an original joint inventor of subject matter ("INVENTION") disclosed and/or claimed in a patent application entitled "PERSONALIZATION ENHANCED RECOMMENDATION MODELS" ("APPLICATION"), which:

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Jayaram N.M. NANDURI Printed Name in English	 Printed Name in Native Language (if other than English)