

## 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>
	SEUNG HWAN VAN	10/27/2017
	KA RAM HAN	10/27/2017
	YONG HYUN KIM	10/27/2017
	SUNG HWAN CHANG	10/27/2017
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<b>State/Country:</b>	KOREA, REPUBLIC OF	
<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	15797053	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>		
<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>		
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<b>ATTORNEY DOCKET NUMBER:</b>	50392639	
<b>NAME OF SUBMITTER:</b>	JENNY KUH	
<b>SIGNATURE:</b>	/JK/	
<b>DATE SIGNED:</b>	11/13/2017	
<b>Total Attachments: 2</b>		
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ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I (we), Seung Hwan Van, Ka Ram Han, Yong Hyun Kim, and Sung Hwan Chang, have sold, assigned and transferred, and do hereby sell, assign and transfer, unto **KAKAO CORP.**, a corporation of the Republic of Korea, having its principal office in 242, Cheomdan-Ro, Jeju-Si, Jeju-Do, Republic of Korea, and its successors, assigns, and legal representatives, the entire right, title and interest for the United States of America in and to certain inventions relating to improvements in METHOD AND SYSTEM FOR PROVIDING INSTANT MESSAGING SERVICE (Attorney Docket No. 50392639):

Filing Date: October 30, 2017 Application No.: 15/797,053

described, illustrated and claimed in an application for Letters Patent of the United States of America executed by us on the dates indicated by our signatures below, together with the entire right, title and interest in and to the application, and in and to Letters Patent which may be issued upon the application, and upon any division, extension, continuation or reissue thereof.

We hereby also sell, assign and transfer unto **KAKAO CORP.**, the entire right, title and interest in and to the invention and in and to applications for Letters Patent therefore in all countries foreign to the United States of America, including all rights under any and all international conventions and treaties in respect of the invention and the applications for Letters Patent in foreign countries, and we further authorize **KAKAO CORP.**, to apply for Letters Patent in foreign countries directly in its own name, and to claim priority of the filing date of the application for Letters Patent of the United States of America under the provisions of any and all international conventions and treaties.

We hereby authorize and request the Commissioner of Patents of the United States of America to issue Letters Patent upon the aforesaid application, division, extension, continuation or reissue, to **KAKAO CORP.**, for the sole use and benefit of **KAKAO CORP.**, its successors, assigns and legal representatives, to the full end of the term for which Letters Patent may be granted, the same as they would have been held and enjoyed by us had this assignment not been made, and we hereby authorize and request the equivalent authorities in foreign countries to issue the patents of their respective countries to **KAKAO CORP.**.

We agree that, when requested, we will, without charge to **KAKAO CORP.**, but at its expense, sign all papers, take all rightful oaths, and do all acts which may be

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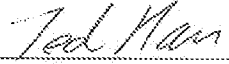
necessary, desirable or convenient for securing and maintaining patents for the inventions in any and all countries and for vesting title thereto in **KAKAO CORP.**, its successors, assigns and legal representatives or nominees.

We covenant with **KAKAO CORP.**, its successors, assigns and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license or other encumbrance.

We further authorize and direct the attorneys of record to insert the serial number and filing date of said application now identified by the attorney docket number and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademark Office.

Signature of 1st Inventor:  Date: Oct. 27, 2017  
Signature

Name of 1st Inventor: Seung Hwan Van

Signature of 2nd Inventor:  Date: Oct. 27, 2017  
Signature

Name of 2nd Inventor: Ka Ram Han

Signature of 3rd Inventor:  Date: Oct. 27, 2017  
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Name of 3rd Inventor: Yong Hyun Kim

Signature of 4th Inventor:  Date: Oct. 27, 2017  
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Name of 4th Inventor: Sung Hwan Chang