

## 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>
	NOMURA RESEARCH INSTITUTE, LTD.	09/28/2016
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	RAKUTEN, INC.	
<b>Street Address:</b>	1-14-1 TAMAGAWA, SETAGAYA-KU,	
<b>City:</b>	TOKYO	
<b>State/Country:</b>	JAPAN	
<b>Postal Code:</b>	158-0094	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	14239647
<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>Correspondent Name:</b>	HUBBS, ENATSKY & INOUE PLLC	
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<b>ATTORNEY DOCKET NUMBER:</b>	D-RT-50481(US)	
<b>NAME OF SUBMITTER:</b>	DENNIS M HUBBS	
<b>SIGNATURE:</b>	/Dennis M. Hubbs/	
<b>DATE SIGNED:</b>	03/15/2017	
<b>Total Attachments: 2</b>		
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UNITED STATES

PATENT ASSIGNMENT

WHEREAS, Nomura Research Institute, Ltd., a Japanese corporation having its principal place of business at 1-6-5, Marunouchi, Chiyoda-ku, Tokyo 1000005, Japan, (the "Assignor"), is the owner of United States Patent Application No. 14/239,647 (the "Patent Application ") filed on February 19, 2014 for the invention entitled "Group Definition Management System"; and

WHEREAS, Rakuten, Inc. (the "Assignee"), a Japanese corporation having its place of business at 1-14-1, Tamagawa, Setagaya-ku, Tokyo 158-0094, Japan, is desirous of acquiring from Nomura Research Institute, Ltd., said invention and said Patent Application;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of ONE DOLLAR to each in hand paid and other good and valuable consideration, the receipt whereof is hereby acknowledged, we have sold, assigned and set over, and do hereby sell, assign and set over to said corporation, its successors or assigns, the entire right, title and interest to and in said invention in the United States and in all foreign countries, said Letters Patent therefor.

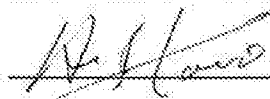
And we also hereby covenant and agree to sign all proper papers including other applications for patents and assignments thereof in the United States and application for patents and assignments in all foreign countries, and to execute all rightful oaths and to take any other proper action that may in the judgment of the said corporation be necessary for securing thereto full rights to said invention, all of the foregoing to be at the expense of said corporation.

IN WITNESS WHEREOF, Nomura Research Institute, Ltd., through its  
representatives, has caused this its duly authorized officers to execute this  
Assignment in its name as of this

28th day of September 2016.

Nomura Research Institute, Ltd.

By:



Name:

Hiroshi Itano

Title:

Senior Executive Managing Director, Members of the Board