

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Yukiyo KANAI</td> <td>05/30/2013</td> </tr> <tr> <td>Tomomi TAKASE</td> <td>05/30/2013</td> </tr> </tbody> </table>		Name	Execution Date	Yukiyo KANAI	05/30/2013	Tomomi TAKASE	05/30/2013
Name	Execution Date						
Yukiyo KANAI	05/30/2013						
Tomomi TAKASE	05/30/2013						
RECEIVING PARTY DATA							
Name:	Rakuten, Inc.						
Street Address:	4-12-3, Higashishinagawa						
City:	Shinagawa-ku, Tokyo						
State/Country:	JAPAN						
Postal Code:	140-0002						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13991767</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13991767		
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Application Number:	13991767						
CORRESPONDENCE DATA							
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Signature:	/Perri D. Michael/						
Date:	06/25/2013						
Total Attachments: 1 source=ASSN_AS_FILED#page1.tif							

OP \$40.00 13991767

ASSIGNMENT

Whereas, I/we,

Name

Address

1) Yukiyo KANAI

c/o Rakuten, Inc.,
4-12-3, Higashishinagawa,
Shinagawa-ku, Tokyo 140-0002 Japan

2) Tomomi TAKASE

c/o Rakuten, Inc.,
4-12-3, Higashishinagawa,
Shinagawa-ku, Tokyo 140-0002 Japan

hereinafter called assignor(s), have invented certain improvements in
RETRIEVAL DEVICE, RETRIEVAL SYSTEM, RETRIEVAL METHOD, RETRIEVAL PROGRAM, AND COMPUTER-
READABLE RECORDING MEDIUM STORING RETRIEVAL PROGRAM

and executed an application for Letters Patent of the United States of America therefor on even date herewith unless
otherwise indicated below:

filed on June 5, 2013, Serial No. 13/991767; and

Whereas

Rakuten, Inc.
4-12-3, Higashishinagawa,
Shinagawa-ku, Tokyo 140-0002 Japan

(assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States
patents to be obtained therefor;

NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is
hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign,
transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to
this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States
which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of
Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and
assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with
assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal
proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or
desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional,
continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its
successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being
understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and
assigns.

INVENTORS

DATE SIGNED

1):

Name:

Yukiyo Kanai
Yukiyo KANAI

May 30, 2013

2):

Name:

Tomomi Takase
Tomomi TAKASE

May 30, 2013

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. § 261)