

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT2600404

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
NHN CORPORATION	10/04/2013
RECEIVING PARTY DATA	
Name:	NHN ENTERTAINMENT CORPORATION
Street Address:	NHN ENT. PLAY MUSEUM, 629 SAMPYEONG-DONG
Internal Address:	BUNDANG-GU, GYEONGGI-DO
City:	SEONGNAM-SI
State/Country:	KOREA, REPUBLIC OF
Postal Code:	463-400
PROPERTY NUMBERS Total: 55	
Property Type	Number
Application Number:	13936505
Application Number:	13724445
Application Number:	13723999
Application Number:	13495422
Application Number:	13526465
Application Number:	13170598
Application Number:	12820984
Application Number:	12696885
Application Number:	12646332
Application Number:	12644770
Application Number:	12620278
Patent Number:	8131797
Application Number:	12131177
Application Number:	12124241

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Application Number:	11853525
Application Number:	11843064
Patent Number:	8512145
Application Number:	12279338
Patent Number:	7836073
Patent Number:	7966275
Application Number:	11469930
Patent Number:	8052525
Patent Number:	7702959
Application Number:	11498412
Application Number:	11993458
Patent Number:	8204996
Patent Number:	7945644
Patent Number:	8151107
Application Number:	11915155
Patent Number:	8342965
Application Number:	11908722
Patent Number:	7896745
Patent Number:	8321585
Patent Number:	8260894
Application Number:	11721555
Patent Number:	8346892
Patent Number:	8321289
Patent Number:	8253743
Application Number:	11702751
Application Number:	11571742
Application Number:	13228325
Patent Number:	8035649
Patent Number:	7682243
Patent Number:	8043150
Patent Number:	8434089
Patent Number:	8441478
Patent Number:	8164589
Patent Number:	7707112
Application Number:	11570152

	8425327
Patent Number:	8043159
Patent Number:	8052520
Patent Number:	7549918
Application Number:	11496931
Patent Number:	7834874

**CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	NHN CORP. - NHN ENT. CORP
NAME OF SUBMITTER:	HAE-CHAN PARK
Signature:	/hae-chan park/
Date:	11/01/2013

**Total Attachments: 6**  
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## PATENT ASSIGNMENT AGREEMENT

Whereas, NHN Corporation ("Assignor"), having a place of business at NHN Green Factory, 178-1, Jeongja-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, 463-867 Republic of Korea, is the owner and assignee of record of the patents and patent applications listed on the attached Schedule A, including any continuation, division, continuation-in-part, renewal, reissue, or substitute thereof ("Intellectual Property").

Whereas, by this Assignment, Assignor desires to convey all of Assignor's rights, title, and interests in and to the Intellectual Property to:

**NHN Entertainment Corporation**  
NHNEnt. Play Museum, 629 Sampyeong-dong  
Bundang-gu, Seongnam-si, Gyeonggi-do, 463-400  
Republic of Korea

Whereas, **NHN Entertainment Corporation** ("Assignee") desires to receive all of Assignor's rights, title, and interests in and to the Intellectual Property.

Now, for valuable consideration by Assignee to Assignor, the receipt of which is hereby acknowledged, and for other good and valuable consideration, Assignee and Assignor hereby agree as follows:

Assignor hereby conveys, assigns, sells, and transfers to Assignee all of Assignor's rights, title and interests in and to the inventions disclosed in the Intellectual Property, and hereby grants to Assignee the right to apply in its own name for patents or Inventor's certificates and related rights for the inventions in any and all countries, including (without limitation) all rights to claim priority based upon the Intellectual Property, all patents granted upon the Intellectual Property, and all reissues, extensions and renewals of the Intellectual Property.

Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

Assignor further covenants that Assignee will, upon Assignee's request, be provided promptly with all pertinent facts and documents relating to the Intellectual Property, as may be known and accessible to Assignor, and Assignor will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to Assignee or Assignee's legal representative any and all papers, instruments or affidavits required to apply for, protect, obtain, maintain, issue, defend and enforce the Intellectual Property, whether in the U.S. or any and all foreign countries and any patents granted thereon and/or for obtaining any reissue or reissues of any patent which may be granted for the invention and perform such further acts which may be necessary or desirable to carry out the intent of this agreement as the Assignee thereof shall hereafter require and prepare at assignee's expense.

Assignor warrants that its representative signing below is fully authorized to enter into this Assignment and to convey the interests described in this Assignment on behalf of Assignor.


Assignee warrants that its representative signing below is fully authorized to enter into this Assignment on behalf of Assignee.

IN WITNESS WHEREOF, Assignor's and Assignee's authorized representatives have hereunto set hand and seal.

**Assignor:** **NHN CORPORATION**

**Address:** NHN Green Factory, 178-1, Jeongja-dong  
Bundang-gu, Seongnam-si, Gyeonggi-do, 463-867  
Republic of Korea

Authorized Representative's  
Signature:

Hanno LEE 

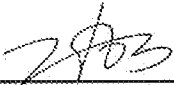
Title: Manager of IP Strategy Team

Date: Oct 4, 2013

**Assignee:** **NHN ENTERTAINMENT CORPORATION**

**Address:** NHNEnt. Play Museum, 629 Sampyeong-dong  
Bundang-gu, Seongnam-si, Gyeonggi-do, 463-400  
Republic of Korea

Authorized Representative's  
Signature:

Hyungseok KO 

Title: Manager of IP Strategy Team

Date: 14th of Oct., 2013

**SCHEDULE A**

	<b>APPLICATION NUMBER</b>	<b>FILING DATE</b>	<b>PATENT NUMBER</b>	<b>ISSUE DATE</b>	<b>TITLE</b>
1	13/936,505	2013-07-08	-	-	Apparatus, Method and Computer Readable Recording Medium for Interworking Account Based on Mobile Terminal and Account Based on Game
2	13/724,445	2012-12-21	-	-	System, Method, and Computer Readable Recording Medium for Providing Game Through Connection with Challenge Opponent
3	13/723,999	2012-12-21	-	-	System, Method ad Computer Readable Recording Medium for Searching Game Challenge Opponents Based on Action of User
4	13/495,422	2013-06-13	-	-	System, Method and Computer Readable Recording Medium of Registering Friend in Game
5	13/526,465	2012-06-18	-	-	Method, System and Computer Readable Recording Medium for Providing Ranking of Game Group
6	13/170,598	2011-06-28	-	-	Method and System for Providing Developer Interface
7	12/820,984	2010-06-22	-	-	Service Providing Method Using On-Line Game, and Recording Media Recording Program for Implementing the Method
8	12/696,885	2010-01-29	-	-	Method and System for Providing Html-Based Application Capable of Controlling Web Action and Client
9	12/646,332	2009-12-23	-	-	Method and System for Supporting Purchase of Game Item
10	12/644,770	2009-12-22	-	-	Method, System, and Computer-Readable Recording Medium for Sharing a Result Related to Contents
11	12/620,278	2009-11-17	-	-	System and Method for Production of Multiuser Network Game
12	12/215,786	2008-06-30	8,131,797	2012-03-06	System and Method for Providing and Distributing Game on Network
13	12/131,177	2008-06-02	-	-	Game Support System and Method
14	12/124,241	2008-05-21	-	-	Method and System for Providing Card Game Services

	APPLICATION NUMBER	FILING DATE	PATENT NUMBER	ISSUE DATE	TITLE
15	11/853,525	2007-09-11	-	-	Multi-Access Online Game System and Method for Controlling Game for Use in the Multi-Access Online Game System
16	11/843,064	2007-08-22	-	-	System and Method for Transmitting P2P Message in Multi-Access Online Game
17	12/323,441	2008-11-25	8,512,145	2013-08-20	Online Game System and Method Thereof
18	12/279,338	2008-08-13	-	-	Method and System for Exposing Games
19	11/528,103	2006-09-27	7,836,073	2010-11-16	Method and System for Transmitting Pre-Formulated Query to Database
20	11/530,117	2006-09-08	7,966,275	2011-06-21	Method and System for Controlling Playing of a Card Game Which Determines a Level of a User by Checking Play/Card Patterns
21	11/469,930	2006-09-05	-	-	Method and System for Controlling Game AI Which Copies Input Pattern Of Gamer and Playing the Game
22	11/508,389	2006-08-22	8,052,525	2011-11-08	System for Protecting On-Line Flash Game, Web Server, Method for Providing Webpage, and Storage Media Recording That Method Execution Program
23	11/498,121	2006-08-01	7,702,959	2010-04-20	Error Management System and Method of Using the Same
24	11/498,412	2006-08-02	-	-	Method and System for Providing Online Flash Game
25	11/993,458	2007-12-20	-	-	Method for Inserting Moving Picture Into 3-Dimension Screen and Record Medium for the Same
26	11/959,458	2007-12-18	8,204,996	2012-06-19	Method and System for Managing Log Information of User Using Location Servers Belonging to Plurality of Groups
27	11/993,196	2007-12-19	7,945,644	2011-05-17	Dynamic Initialization Method and System of Location Server
28	11/943,951	2007-11-21	8,151,107	2012-04-03	Method and System for Detecting Concurrent Logins
29	11/915,155	2007-11-20	-	-	Method and System for Synchronizing Status of Member Servers Belonging to Same Replication Group

	APPLICATION NUMBER	FILING DATE	PATENT NUMBER	ISSUE DATE	TITLE
30	11/864,615	2007-09-28	8,342,965	2013-01-01	Displaying a Game Menu Screen by Flash Program Module in an On-Line Game Application
31	11/908,722	2007-09-14	-	-	Game Scrap System, Game Scrap Method, and Computer Readable Recording Medium Recording Program for Implementing the Method
32	11/814,018	2007-07-16	7,896,745	2011-03-01	System for Providing Go-Stop Game Service Via On-Line and Method Therefor
33	11/721,595	2007-06-13	8,321,585	2012-11-27	Communication Network System of Bus Network Structure and Message Routing Method Using the System
34	11/721,571	2007-06-13	8,260,894	2012-09-04	Method for Balancing Load Among Subsystems in Communication Network System of Bus Network Structure
35	11/721,555	2007-06-13	-	-	Communication Network System of Bus Network Structure and Method for Transmitting and Receiving Data Using the System
36	11/721,396	2007-06-11	8,346,892	2013-01-01	Communication Network System of Bus Network Structure and Method Using the Communication Network System
37	11/575,491	2007-03-16	8,321,289	2012-11-27	Method for Making Use of Site Activity Index and a System Thereof
38	11/573,200	2007-02-27	8,253,743	2012-08-28	Method and System for Providing Character Having Game Item Functions
39	11/702,751	2007-02-06	-	-	Method and System for Renewing Screen Using Mechanics Information
40	11/571,742	2007-01-05	-	-	Method For Providing On-Line Game Which Systematically Maintains Monster's Aggro Points Against Player Character and System Thereof
41	13/228,325	2011-09-08	-	-	Method and System for Renewing Screen
42	11/571,356	2006-12-27	8,035,649	2011-10-11	Method and System for Renewing Screen
43	11/570,770	2006-12-17	7,682,243	2010-03-23	Method for Providing Online Game Which Changes Pilot Data and Unit Data in Gear and System Thereof



	APPLICATION NUMBER	FILING DATE	PATENT NUMBER	ISSUE DATE	TITLE
44	11/570,967	2006-12-19	8,043,150	2011-10-25	Game System and Method Using Twin Gage
45	11/570,612	2006-12-14	8,434,089	2013-04-30	Method and System for Loading of Image Resource
46	13/422,653	2012-03-16	8,441,478	2013-05-14	Image Resource Loading System and Method Which Carries Out Loading of Object for Renewal of Game Screen
47	11/570,766	2006-12-15	8,164,589	2012-04-24	Image Resource Loading System and Method Which Carries Out Loading of Object for Renewal of Game Screen
48	11/570,334	2006-12-08	7,707,112	2010-04-27	Periodical Payment System, Control Method Thereof, Service Provider of That Payroll and Control Method Thereof
49	11/570,152	2006-12-07	-	-	System for Online Role-Playing Game Using Developing Buildings, and a Method Thereof
50	13/239,117	2011-09-21	8,425,327	2013-04-23	Method for Providing Location Information of Game Character by Operating With Messenger Server and System Thereof
51	11/568,341	2006-10-26	8,043,159	2011-10-25	Method for Providing Location Information of Game Character by Operating With Messenger Server and Systems Thereof
52	11/522,880	2006-09-15	8,052,520	2011-11-08	Registration System for Game Item Sale and a Method Thereof
53	11/514,415	2006-09-01	7,549,918	2009-06-23	Golf Game System and Method Thereof
54	11/496,931	2006-07-31	-	-	Method for Processing the Data Distributed at Online Game Server and a System Thereof
55	11/452,636	2006-06-14	7,834,874	2010-11-16	Method of Improving the Presentation of Image Data Which Inter-Locked With Video Signals Throughput of a Terminal and a System Thereof