PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ALEXANDROS NTOULAS	01/16/2015
JEFFREY ZAKRZEWSKI	01/16/2015
OLIVER ATTILA TABAY	01/18/2015
YUKO YAMAZAKI	01/18/2015
PAUL YIH YARNG CHONG	01/20/2015

RECEIVING PARTY DATA

Name:	ZYNGA INC.
Street Address:	699 EIGHTH STREET
City:	SAN FRANCISCO
State/Country:	CALIFORNIA
Postal Code:	94103

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14601807

CORRESPONDENCE DATA

Fax Number: (612)339-3061

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.

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Correspondent Name: SCHWEGMAN LUNDBERG & WOESSNER / ZYNGA

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ATTORNEY DOCKET NUMBER:	3291.338US1
NAME OF SUBMITTER:	KATY GRINNELL
SIGNATURE:	/Katy Grinnell/
DATE SIGNED:	01/21/2015

Total Attachments: 7

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PATENT REEL: 034776 FRAME: 0440

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Attorney Docket No. 3291.338US1 Client Ref. No. P1495US1

ASSIGNMENT

WHEREAS, Alexandros Ntoulas, Jeffrey Zakrzewski, Oliver Attila Tabay, Yuko Yamazaki and Paul Yih Yarng Chong (hereinafter the "Undersigned") have made one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention") which are described in a patent application filed on Jamuary 21, 2015, which application was assigned US patent application serial number J4/601,807, and which is titled EXPERIMENTATION AND OPTIMIZATION SERVICE; which are described in a patent application filed on September 10, 2014, which application was assigned US application serial number 62/048,362, and which is titled SYSTEMS AND METHODS FOR INTER-LEVEL AND INTRA-LEVEL TUNING.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged by the Undersigned, the Undersigned do hereby irrevocably and unconditionally:

CONVEY, ASSIGN, AND TRANSFER to Zynga Inc. (the "Assignee"), a corporation of the State of Delaware, having a place of business at 699 Eighth Street, San Francisco, CA 94103, the Undersigned's entire right, title, and interest for the United States and all foreign countries and jurisdictions in and to:

the Invention which is disclosed in the above-identified application or applications;

such application or applications, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such Invention (including any application for a utility model or an innovation patent application);

all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of such Invention;

including the right to claim priority to the above-identified patent application or applications in relation to subject matter based in whole or in part on the above-identified patent application or applications and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the above-identified patent application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such Invention to the Assignee;

AUTHORIZE AND REQUEST that any attorney associated with U.S. Patent and Trademark Office (USPTO) Customer No. 107322 may (directly or through his/her designee) delete, insert, or alter any

information related to the above-identified patent application or applications or any of the foregoing, after execution of this Assignment;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or shall be made to others by the Undersigned, and that the full right to convey the same as herein expressed is possessed by the Undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the Undersigned shall (1) execute all provisional, non-provisional, divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other patent applications for the Invention; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers for the Invention; (3) communicate to the Assignee all facts known to the Undersigned relating to the Invention and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for the Invention; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such Invention in the Assignee, or for securing, maintaining and enforcing proper patent protection for the Invention;

COVENANT, that should any provision of this agreement be held unenforceable by an authority of competent jurisdiction, such a ruling shall not affect the validity and enforceability of the remaining provisions. To the extent that any such provision is found to be unenforceable, the Undersigned, when requested and without compensation shall act in good faith to substitute for such provision a new provision with content and purpose as close as possible to the provision deemed unenforceable.

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives, and successors of the Undersigned, and is to extend to the benefit of the successors, assigns, and nominees of the Assignee.

AGREED as of the date of my signature below:

Assignors: Alexandros Ntoulas et al.

Title: EXPERIMENTATION AND OPTIMIZATION SERVICE

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Docket No: 3291.338US1 Client Ref. No. P1495US1

Assignor:

(Signature): / ALEXANDEROS NTOYLAS

Name: Alexandros Ntoulas

City/State: San Jose, CA

Date: Jan 16, 2015

Assignors: Alexandros Ntoulas et al.

Title: EXPERIMENTATION AND OPTIMIZATION SERVICE

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Assignor:

(Signature): /

Name: <u>Jeffrey Zakrzewski</u>
City/State: <u>Toronto, Ontario</u>

Date: Jan 16, 2015

PATENT REEL: 034776 FRAME: 0445

Docket No: 3291,338US1

Client Ref. No. P1495US1

Assignors: Alexandros Ntoulas et al.

Title: EXPERIMENTATION AND OPTIMIZATION SERVICE

Docket No: 3291,338US1 Client Ref. No. P1495US1

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Assignor:

(Signature):

Name: Oliver Attila Tabay City/State: Thornhill, Ontario

Jan 18, 2015 Date:

Assignors: Alexandros Ntoulas et al.

Title: EXPERIMENTATION AND OPTIMIZATION SERVICE

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Docket No: 3291.338US1 Client Ref. No. P1495US1

Assignor:

(Signature): / Vuls Vamazaki

Name: Yuko Yamazaki
City/State: San Anselmo, CA

Date: Jan 18, 2015

Assignment
Assignors: Alexandros Ntoulas et al.

Title: EXPERIMENTATION AND OPTIMIZATION SERVICE

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Assignor:

(Signature): / Paul Chong

Name: Paul Yih Yarng Chong
City/State: San Francisco, CA

Date: Jan 20, 2015

RECORDED: 01/21/2015

PATENT REEL: 034776 FRAME: 0448

Docket No: 3291.338US1

Client Ref. No. P1495US1