

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
KAZUHIKO YAMAMOTO	10/09/2015
RECEIVING PARTY DATA	
Name:	YAMAHA CORPORATION
Street Address:	10-1, NAKAZAWA-CHO, NAKA-KU
City:	HAMAMATSU-SHI, SHIZUOKA-KEN
State/Country:	JAPAN
Postal Code:	430-8650
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14813007
CORRESPONDENCE DATA	
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NAME OF SUBMITTER:	STEPHEN C. JONES
SIGNATURE:	/Stephen C. Jones/
DATE SIGNED:	10/29/2015
Total Attachments: 2	
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SOLE ASSIGNMENT

This assignment is by:

1. **Kazuhiko YAMAMOTO**
c/o Yamaha Corporation
10-1, Nakazawa-cho, Naka-ku
Hamamatsu-shi, Shizuoka-Ken
430-8650, JAPAN

(referred to in this Assignment as "Assignor"), who resides at or has a mailing address as listed above.

This Assignment is to:

Assignee: Yamaha Corporation
Address: 10-1, Nakazawa-cho, Naka-ku, Hamamatsu-shi, Shizuoka-Ken 430-8650, Japan
A corporation duly organized under and pursuant to the laws of: Japan

(referred to in this Assignment as "Assignee"), who desire to acquire the entire right, title and interest in said inventions and said application for letters patent of the United States, and in any United States or foreign, letters patent or patents, to be obtained therefor and thereon.

Assignor has invented certain new and useful inventions in:

ESTIMATION OF TARGET CHARACTER TRAIN

for which Assignor has filed an application for patent in the United States of America concurrently herewith. Where this Assignment is not filed concurrently with the application, the following identifying information may be added after execution:

Serial No.: 2014-153596

Filing Date: July 29, 2014

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged,

1. Assignor hereby sells, assigns, transfers and sets over, to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for letters patent, and any and all letters patent or patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all provisionals, divisions, continuations, continuations-in-part and substitutions of said application, or reissues, re-examinations or extensions of said letters patent or patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee (including any right to institute actions and to recover for past, present and future infringement), for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which letters patent or patents may be granted, as fully and entirely as the same would have been held and enjoyed by Assignor, had this sale and assignment not been made.
2. Assignor represents, warrants and covenants that, at the time of execution and delivery of this agreement, Assignor is the sole and lawful owner of the entire right, title and interest in and to said inventions and said application for letters patent, and that the same are unencumbered and that Assignor has good and full right and lawful authority to sell and convey the same in the manner set forth in this agreement.
3. Assignor shall promptly sign and execute all papers and documents, take all lawful oaths, and do all acts necessary, required or useful for the procurement, maintenance, enforcement, defense or otherwise to secure title thereto to the Assignee, at the sole cost and expense of Assignee, its successors, legal representatives and assigns, in each case

Attorney Docket No.:
Yamaha Reference No.:

including, without limitation, arising from or relating to (a) said inventions, or said application for letters patent; (b) letters patent for said inventions in any country, including any reissue, re-examination or extension of or interference proceedings; or (c) any provisional, division, continuation, continuation-in-part, or substitutions of any application for letters patent or any reissues, re-examinations, extensions or interference proceedings involving any letters patent, to be obtained thereon. To be clear, for purposes of this paragraph, "desirable" shall include, without limitation, any act necessary or useful in connection with United States laws and/or international conventions.

4. Assignor hereby authorizes and requests the Commissioner of Patents in the United States to issue the above mentioned letters patents of the United States to Assignee as the assignee of said inventions and the letters patent to be issued thereon for the sole use of Assignee, its successors, legal representatives and assigns.

5. "I hereby grant Assignee's attorneys, all of Morrison & Foerster LLP, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark office for recordation of this document, including the power to insert on this assignment the application number and filing date of said application when known."

In witness whereby, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date: October 9, 2015

Signature: Kazuhiko Yamamoto
Kazuhiko YAMAMOTO